1

SEQUENCE LISTING

<110> MANNING, GERARD
       SUDARSANAM, SUCHA

<120> METHOD FOR SELECTIVELY INHIBITING FUNGAL GROWTH

<130> 034536/0323

<140> 10/618,581
<141> 2003-07-15

<150> 60/395,624
<151> 2002-07-15

<160> 42

<170> PatentIn Ver. 2.1

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<212> PRT
<213> Saccharomyces cerevisiae

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Gln Gln Asp Asp Gly Asn Ser Glu Ser Asn Ser Met His Thr Gln Pro
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Ser Thr Met Ala Pro Ala Thr Leu Arg Met Met Gly Lys Ser Pro Gln
          35   40   45

Gln Gln Gln Gln Gln Asn Thr Pro Leu Met Pro Pro Ala Asp Ile Lys
       50   55   60

Tyr Ala Asn Asn Gly Asn Ser His Gln Ala Glu Gln Lys Glu Arg Gln
 65   70   75   80

Val Glu Leu Glu Gly Lys Ser Arg Glu Asn Ala Pro Lys Pro Asn Thr
             85   90   95

Thr Ser Gln Ser Arg Val Ser Ser Ser Gln Gly Met Pro Lys Gln Phe
             100   105   110

His Arg Lys Ser Leu Gly Asp Trp Glu Phe Val Glu Thr Val Gly Ala
          115   120   125

Gly Ser Met Gly Lys Val Lys Leu Ala Lys His Arg Tyr Thr Asn Glu
       130   135   140

Val Cys Ala Val Lys Ile Val Asn Arg Ala Thr Lys Ala Phe Leu His
145   150   155   160

Lys Glu Gln Met Leu Pro Pro Pro Lys Asn Glu Gln Asp Val Leu Glu
             165   170   175

Arg Gln Lys Lys Leu Glu Lys Glu Ile Ser Arg Asp Lys Arg Thr Ile
        180   185   190

Arg Glu Ala Ser Leu Gly Gln Ile Leu Tyr His Pro His Ile Cys Arg
        195   200   205

Leu Phe Glu Met Cys Thr Leu Ser Asn His Phe Tyr Met Leu Phe Glu
        210   215   220

Tyr Val Ser Gly Gly Gln Leu Leu Asp Tyr Ile Ile Gln His Gly Ser
225   230   235   240

Ile Arg Glu His Gln Ala Arg Lys Phe Ala Arg Gly Ile Ala Ser Ala
            245   250   255

Leu Ile Tyr Leu His Ala Asn Asn Ile Val His Arg Asp Leu Lys Ile
        260   265   270

Glu Asn Ile Met Ile Ser Asp Ser Ser Glu Ile Lys Ile Ile Asp Phe
        275   280   285

Gly Leu Ser Asn Ile Tyr Asp Ser Arg Lys Gln Leu His Thr Phe Cys
    290   295   300

Gly Ser Leu Tyr Phe Ala Ala Pro Glu Leu Leu Lys Ala Asn Pro Tyr
305   310   315   320

Thr Gly Pro Glu Val Asp Val Trp Ser Phe Gly Val Val Leu Phe Val
            325   330   335

Leu Val Cys Gly Lys Val Pro Phe Asp Asp Glu Asn Ser Ser Val Leu
        340   345   350

His Glu Lys Ile Lys Gln Gly Lys Val Glu Tyr Pro Gln His Leu Ser
        355   360   365

Ile Glu Val Ile Ser Leu Leu Ser Lys Met Leu Val Val Asp Pro Lys
    370   375   380

Arg Arg Ala Thr Leu Lys Gln Val Val Glu His His Trp Met Val Arg
385   390   395   400

Gly Phe Asn Gly Pro Pro Pro Ser Tyr Leu Pro Lys Arg Val Pro Leu
            405   410   415

Thr Ile Glu Met Leu Asp Ile Asn Val Leu Lys Glu Met Tyr Arg Leu
        420   425   430

Glu Phe Ile Asp Asp Val Glu Glu Thr Arg Ser Val Leu Val Ser Ile
        435   440   445

Ile Thr Asp Pro Thr Tyr Val Leu Leu Ser Arg Gln Tyr Trp Thr Leu
    450   455   460

Ala Ala Lys Met Asn Ala Glu Ser Ser Asp Asn Gly Asn Ala Pro Asn
465   470   475   480

Ile Thr Glu Ser Phe Glu Asp Pro Thr Arg Ala Tyr His Pro Met Ile
           485   490   495

Ser Ile Tyr Tyr Leu Thr Ser Glu Met Leu Asp Arg Lys His Ala Lys
         500   505   510

Ile Arg Asn Gln Gln Gln Arg Gln Ser His Glu Asn Ile Glu Lys Leu
         515   520   525

Ser Glu Ile Pro Glu Ser Val Lys Gln Arg Asp Val Glu Val Asn Thr
         530   535   540

Thr Ala Met Lys Ser Glu Pro Glu Ala Thr Leu Ala Thr Lys Asp Thr
545   550   555   560

Ser Val Pro Phe Thr Pro Lys Asn Ser Asp Gly Thr Glu Pro Pro Leu
         565   570   575

His Val Leu Ile Pro Pro Arg Leu Ala Met Pro Glu Gln Ala His Thr
         580   585   590

Ser Pro Thr Ser Arg Lys Ser Ser Asp Asn Gln Arg Arg Glu Met Glu
         595   600   605

Tyr Ala Leu Ser Pro Thr Pro Gln Gly Asn Asp Tyr Gln Gln Phe Arg
         610   615   620

Val Pro Ser Thr Thr Gly Asp Pro Ser Glu Lys Ala Lys Phe Gly Asn
625   630   635   640

Ile Phe Arg Lys Leu Ser Gln Arg Arg Lys Lys Thr Ile Glu Gln Thr
         645   650   655

Ser Val Asn Ser Asn Asn Ser Ile Asn Lys Pro Val Gln Lys Thr His
         660   665   670

Ser Arg Ala Val Ser Asp Phe Val Pro Gly Phe Ala Lys Pro Ser Tyr
         675   680   685

Asp Ser Asn Tyr Thr Met Asn Glu Pro Val Lys Thr Asn Asp Ser Arg
         690   695   700

Gly Gly Asn Lys Gly Asp Phe Pro Ala Leu Pro Ala Asp Ala Glu Asn
705   710   715   720

Met Val Glu Lys Gln Arg Glu Lys Gln Ile Glu Glu Asp Ile Met Lys
         725   730   735

Leu His Asp Ile Asn Lys Gln Asn Asn Glu Val Ala Lys Gly Ser Gly
         740   745   750

Arg Glu Ala Tyr Ala Ala Gln Lys Phe Glu Gly Ser Asp Asp Asp Glu
         755   760   765

Asn His Pro Leu Pro Pro Leu Asn Val Ala Lys Gly Arg Lys Leu His
         770   775   780

Pro Ser Ala Arg Ala Lys Ser Val Gly His Ala Arg Arg Glu Ser Leu
785   790   795   800

Lys Tyr Met Arg Pro Pro Met Pro Ser Ser Ala Tyr Pro Gln Gln Glu
            805   810   815

Leu Ile Asp Thr Gly Phe Leu Glu Ser Ser Asp Asp Asn Lys Ser Asp
            820   825   830

Ser Leu Gly Asn Val Thr Ser Gln Thr Asn Asp Ser Val Ser Val His
        835   840   845

Ser Val Asn Ala His Ile Asn Ser Pro Ser Val Glu Lys Glu Leu Thr
    850   855   860

Asp Glu Glu Ile Leu Gln Glu Ala Ser Arg Ala Pro Ala Gly Ser Met
865   870   875   880

Pro Ser Ile Asp Phe Pro Arg Ser Leu Phe Leu Lys Gly Phe Phe Ser
            885   890   895

Val Gln Thr Thr Ser Ser Lys Pro Leu Pro Ile Val Arg Tyr Lys Ile
        900   905   910

Met Phe Val Leu Arg Lys Met Asn Ile Glu Phe Lys Glu Val Lys Gly
    915   920   925

Gly Phe Val Cys Met Gln Arg Phe Ser Ser Asn Asn Val Ala Ala Lys
    930   935   940

Arg Glu Gly Thr Pro Arg Ser Ile Met Pro Leu Ser His His Glu Ser
945   950   955   960

Ile Arg Arg Gln Gly Ser Asn Lys Tyr Ser Pro Ser Ser Pro Leu Thr
            965   970   975

Thr Asn Ser Ile His Gln Arg Lys Thr Ser Ile Thr Glu Thr Tyr Gly
        980   985   990

Asp Asp Lys His Ser Gly Thr Ser Leu Glu Asn Ile His Gln Gln Gly
        995   1000   1005

Asp Gly Ser Glu Gly Met Thr Thr Thr Glu Lys Glu Pro Ile Lys Phe
    1010   1015   1020

Glu Ile His Ile Val Lys Val Arg Ile Val Gly Leu Ala Gly Val His
1025   1030   1035   1040

Phe Lys Lys Ile Ser Gly Asn Thr Trp Leu Tyr Lys Glu Leu Ala Ser
            1045   1050   1055

Ser Ile Leu Lys Glu Leu Lys Leu
        1060

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<211> 1147
<212> PRT
<213> Saccharomyces cerevisiae

<400> 2

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Met Pro Asn Pro Asn Thr Ala Asp Tyr Leu Val Asn Pro Asn Phe Arg
  1               5                  10                  15

Thr Ser Lys Gly Gly Ser Leu Ser Pro Thr Pro Glu Ala Phe Asn Asp
             20                  25                  30

Thr Arg Val Ala Ala Pro Ala Thr Leu Arg Met Met Gly Lys Gln Ser
         35                  40                  45

Gly Pro Arg Asn Asp Gln Gln Gln Ala Pro Leu Met Pro Pro Ala Asp
     50                  55                  60

Ile Lys Gln Gly Lys Glu Gln Ala Ala Gln Arg Gln Asn Asp Ala Ser
 65                  70                  75                  80

Arg Pro Asn Gly Ala Val Glu Leu Arg Gln Phe His Arg Arg Ser Leu
             85                  90                  95

Gly Asp Trp Glu Phe Leu Glu Thr Val Gly Ala Gly Ser Met Gly Lys
            100                 105                 110

Val Lys Leu Val Lys His Arg Gln Thr Lys Glu Ile Cys Val Ile Lys
         115                 120                 125

Ile Val Asn Arg Ala Ser Lys Ala Tyr Leu His Lys Gln His Ser Leu
     130                 135                 140

Pro Ser Pro Lys Asn Glu Ser Glu Ile Leu Glu Arg Gln Lys Arg Leu
145                 150                 155                 160

Glu Lys Glu Ile Ala Arg Asp Lys Arg Thr Val Arg Glu Ala Ser Leu
             165                 170                 175

Gly Gln Ile Leu Tyr His Pro His Ile Cys Arg Leu Phe Glu Met Cys
             180                 185                 190

Thr Met Ser Asn His Phe Tyr Met Leu Phe Glu Tyr Val Ser Gly Gly
         195                 200                 205

Gln Leu Leu Asp Tyr Ile Ile Gln His Gly Ser Leu Lys Glu His His
     210                 215                 220

Ala Arg Lys Phe Ala Arg Gly Ile Ala Ser Ala Leu Gln Tyr Leu His
225                 230                 235                 240

Ala Asn Asn Ile Val His Arg Asp Leu Lys Ile Glu Asn Ile Met Ile
             245                 250                 255

Ser Ser Ser Gly Glu Ile Lys Ile Ile Asp Phe Gly Leu Ser Asn Ile
             260                 265                 270
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Phe Asp Tyr Arg Lys Gln Leu His Thr Phe Cys Gly Ser Leu Tyr Phe
    275   280   285

Ala Ala Pro Glu Leu Leu Lys Ala Gln Pro Tyr Thr Gly Pro Glu Val
    290   295   300

Asp Ile Trp Ser Phe Gly Ile Val Leu Tyr Val Leu Val Cys Gly Lys
305   310   315   320

Val Pro Phe Asp Asp Glu Asn Ser Ser Ile Leu His Glu Lys Ile Lys
         325   330   335

Lys Gly Lys Val Asp Tyr Pro Ser His Leu Ser Ile Glu Val Ile Ser
         340   345   350

Leu Leu Thr Arg Met Ile Val Val Asp Pro Leu Arg Arg Ala Thr Leu
        355   360   365

Lys Asn Val Val Glu His Pro Trp Met Asn Arg Gly Tyr Asp Phe Lys
    370   375   380

Ala Pro Ser Tyr Val Pro Asn Arg Val Pro Leu Thr Pro Glu Met Ile
385   390   395   400

Asp Ser Gln Val Leu Lys Glu Met Tyr Arg Leu Glu Phe Ile Asp Asp
         405   410   415

Ile Glu Asp Thr Arg Arg Ser Leu Ile Arg Leu Val Thr Glu Lys Glu
         420   425   430

Tyr Ile Gln Leu Ser Gln Glu Tyr Trp Asp Lys Leu Ser Asn Ala Lys
         435   440   445

Gly Leu Ser Ser Ser Leu Asn Asn Asn Tyr Leu Asn Ser Thr Ala Gln
    450   455   460

Gln Thr Leu Ile Gln Asn His Ile Thr Ser Asn Pro Ser Gln Ser Gly
465   470   475   480

Tyr Asn Glu Pro Asp Ser Asn Phe Glu Asp Pro Thr Leu Ala Tyr His
         485   490   495

Pro Leu Leu Ser Ile Tyr His Leu Val Ser Glu Met Val Ala Arg Lys
         500   505   510

Leu Ala Lys Leu Gln Arg Arg Gln Ala Leu Ala Leu Gln Ala Gln Ala
        515   520   525

Gln Gln Arg Gln Gln Gln Gln Gln Val Ala Leu Gly Thr Lys Val Ala
    530   535   540

Leu Asn Asn Asn Ser Pro Asp Ile Met Thr Lys Met Arg Ser Pro Gln
545   550   555   560

Lys Glu Val Val Pro Asn Pro Gly Ile Phe Gln Val Pro Ala Ile Gly
         565   570   575

Thr Ser Gly Thr Ser Asn Asn Thr Asn Thr Ser Asn Lys Pro Pro Leu
            580   585   590

His Val Met Val Pro Pro Lys Leu Thr Ile Pro Glu Gln Ala His Thr
            595   600   605

Ser Pro Thr Ser Arg Lys Ser Ser Asp Ile His Thr Glu Leu Asn Gly
    610   615   620

Val Leu Lys Ser Thr Pro Val Pro Val Ser Gly Glu Tyr Gln Gln Arg
625   630   635   640

Ser Ala Ser Pro Val Val Gly Glu His Gln Glu Lys Asn Thr Ile Gly
            645   650   655

Gly Ile Phe Arg Arg Ile Ser Gln Ser Gly Gln Ser Gln His Pro Thr
            660   665   670

Arg Gln Gln Glu Pro Leu Pro Glu Arg Glu Pro Pro Thr Tyr Met Ser
    675   680   685

Lys Ser Asn Glu Ile Ser Ile Lys Val Pro Lys Ser His Ser Arg Thr
    690   695   700

Ile Ser Asp Tyr Ile Pro Ser Ala Arg Arg Tyr Pro Ser Tyr Val Pro
705   710   715   720

Asn Ser Val Asp Val Lys Gln Lys Pro Ala Lys Asn Thr Thr Ile Ala
            725   730   735

Pro Pro Ile Arg Ser Val Ser Gln Lys Gln Asn Ser Asp Leu Pro Ala
            740   745   750

Leu Pro Gln Asn Ala Glu Leu Ile Val Gln Lys Gln Arg Gln Lys Leu
    755   760   765

Leu Gln Glu Asn Leu Asp Lys Leu Gln Ile Asn Asp Asn Asp Asn Asn
    770   775   780

Asn Val Asn Ala Val Val Asp Gly Ile Asn Asn Asp Asn Ser Asp His
785   790   795   800

Tyr Leu Ser Val Pro Lys Gly Arg Lys Leu His Pro Ser Ala Arg Ala
            805   810   815

Lys Ser Val Gly His Ala Arg Arg Glu Ser Leu Lys Phe Thr Arg Pro
            820   825   830

Pro Ile Pro Ala Ala Leu Pro Pro Ser Asp Met Thr Asn Asp Asn Gly
    835   840   845

Phe Leu Gly Glu Ala Asn Lys Glu Arg Tyr Asn Pro Val Ser Ser Asn
    850   855   860

Phe Ser Thr Val Pro Glu Asp Ser Thr Thr Tyr Ser Asn Asp Thr Asn
865   870   875   880

Asn Arg Leu Thr Ser Val Tyr Ser Gln Glu Leu Thr Glu Lys Gln Ile
            885   890   895

Leu Glu Glu Ala Ser Lys Ala Pro Pro Gly Ser Met Pro Ser Ile Asp
            900   905   910

Tyr Pro Lys Ser Met Phe Leu Lys Gly Phe Phe Ser Val Gln Thr Thr
            915   920   925

Ser Ser Lys Pro Leu Pro Ile Val Arg His Asn Ile Ile Ser Val Leu
            930   935   940

Thr Arg Met Asn Ile Asp Phe Lys Glu Val Lys Gly Gly Phe Ile Cys
945   950   955   960

Val Gln Gln Arg Pro Ser Ile Glu Thr Ala Ala Val Pro Val Ile Thr
                965   970   975

Thr Thr Gly Val Gly Leu Asp Ser Gly Lys Ala Met Asp Leu Gln Asn
            980   985   990

Ser Leu Asp Ser Gln Leu Ser Ser Ser Tyr His Ser Thr Ala Ser Ser
            995   1000   1005

Ala Ser Arg Asn Ser Ser Ile Lys Arg Gln Gly Ser Tyr Lys Arg Gly
    1010   1015   1020

Gln Asn Asn Ile Pro Leu Thr Pro Leu Ala Thr Asn Thr His Gln Arg
1025   1030   1035   1040

Asn Ser Ser Ile Pro Met Ser Pro Asn Tyr Gly Asn Gln Ser Asn Gly
            1045   1050   1055

Thr Ser Gly Glu Leu Ser Ser Met Ser Leu Asp Tyr Val Gln Gln Gln
            1060   1065   1070

Asp Asp Ile Leu Thr Thr Ser Arg Ala Gln Asn Ile Asn Asn Val Asn
        1075   1080   1085

Gly Gln Thr Glu Gln Thr Asn Thr Ser Gly Ile Lys Glu Arg Pro Pro
    1090   1095   1100

Ile Lys Phe Glu Ile His Ile Val Lys Val Arg Ile Val Gly Leu Ala
1105   1110   1115   1120

Gly Val His Phe Lys Lys Val Ser Gly Asn Thr Trp Leu Tyr Lys Glu
            1125   1130   1135

Leu Ala Ser Tyr Ile Leu Lys Glu Leu Asn Leu
        1140   1145

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<212> PRT
<213> Schizosaccharomyces pombe

<400> 3

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Met Lys Pro Asn Thr Thr Asn Leu Arg Asn Glu Cys Trp Asp Thr Phe
 1               5                   10                  15

Ser Ile Pro Lys Arg Ser Gln Asn Ile Lys Ile Asn Gln Ser Thr Lys
            20                  25                  30

His Gln Arg Ser Ile Ser Asp Phe Val Gly Thr Ala Gly Pro Gly Arg
            35                  40                  45

Gln Val Gly Asn Trp Ile Ile Lys Lys Thr Ile Gly Ala Gly Ser Met
    50                  55                  60

Gly Lys Val Lys Leu Val Val Asn Ile Leu Thr Gly Glu Lys Ala Ala
65                  70                  75                      80

Leu Lys Met Ile Pro Phe Thr Pro Asn Asn Thr Ser Gln Thr Val Arg
                85                  90                  95

Val Gln Arg Glu Ala Leu Leu Gly Arg Leu Leu Arg His Pro Asn Ile
            100                 105                 110

Cys Arg Val Ile Asp Cys Ile Arg Thr Pro Ala Cys Thr Tyr Ile Leu
        115                 120                 125

Phe Glu Tyr Val Pro Gly Gly Gln Leu Leu Glu Tyr Ile Leu Ala Arg
    130                 135                 140

Gly Lys Leu Asp Glu Asp Leu Ala Arg Ser Phe Ala Met Gln Leu Ile
145                 150                 155                 160

Asn Ala Leu Val Tyr Leu His Lys Asn Phe Ile Val His Arg Asp Leu
                165                 170                 175

Lys Ile Glu Asn Val Leu Leu Thr Gln Asp Ser Arg Gln Val Lys Leu
            180                 185                 190

Ile Asp Phe Gly Leu Ser Asn Phe Tyr Ser Lys Asp Asp Leu Leu Arg
        195                 200                 205

Thr Tyr Cys Gly Ser Leu Tyr Phe Ala Ala Pro Glu Leu Leu Asp Ala
    210                 215                 220

Lys Pro Tyr Ile Gly Pro Glu Val Asp Val Trp Ser Leu Gly Val Val
225                 230                 235                 240

Ile Tyr Val Met Val Cys Gly Arg Val Pro Phe Asp Asp Val Ser Val
                245                 250                 255

Pro Met Leu His Ser Lys Ile Lys Ser Gly Lys Leu Glu Phe Pro Ser
            260                 265                 270

Tyr Ile Ser Glu Asp Cys Cys Ser Leu Ile Ala Ala Met Leu Asn Val
        275                 280                 285

Asn Pro Arg Lys Arg Cys Ser Leu Glu Gln Ala Ala Lys Phe Pro Trp
    290                 295                 300
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Leu Lys Lys Asn Ser Phe Cys Leu Tyr Leu Pro Ile Pro Leu Thr Ser
305             310             315             320

Ile Pro Ser Thr Pro Ser Ile Arg Ser His Val Phe Lys Pro Pro Phe
            325             330             335

Asn Leu Lys Val Leu Gln Leu Leu His Glu His Gly Leu Ala Ser Ile
            340             345             350

Pro Glu Leu Lys His Glu Leu Tyr Met Ala Tyr Ile Glu Arg Lys Thr
        355             360             365

Thr Ser Leu Val Cys Leu Tyr Leu Leu Gly Val Glu Ser Leu Ala Pro
    370             375             380

Ala Leu Arg Ile Pro Thr Ala Leu Pro Pro Val Tyr Ser Arg His Gln
385             390             395             400

Arg His His Ser Glu Ile Leu Gly Ala Met Asp Leu Thr Glu Lys Ile
            405             410             415

Thr Ala Met Gln Cys Pro Pro
            420
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<211> 891
<212> PRT
<213> Schizosaccharomyces pombe

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Met Glu Tyr Arg Thr Asn Asn Val Pro Val Gly Asn Glu Thr Lys Ser
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Ala Ala Leu Asn Ala Leu Pro Lys Ile Lys Ile Ser Asp Ser Pro Asn
            20              25              30

Arg His His Asn Leu Val Asp Ala Phe Met Gln Ser Pro Ser Tyr Ser
        35              40              45

Thr Gln Pro Lys Ser Ala Val Glu Pro Leu Gly Leu Ser Phe Ser Pro
    50              55              60

Gly Tyr Ile Ser Pro Ser Ser Gln Ser Pro His His Gly Pro Val Arg
 65             70              75              80

Ser Pro Ser Ser Arg Lys Pro Leu Pro Ala Ser Pro Ser Arg Thr Arg
            85              90              95

Asp His Ser Leu Arg Val Pro Val Ser Gly His Ser Tyr Ser Ala Asp
        100             105             110

Glu Lys Pro Arg Glu Arg Arg Lys Val Ile Gly Asn Tyr Val Leu Gly
        115             120             125

Lys Thr Ile Gly Ala Gly Ser Met Gly Lys Val Lys Val Ala His His
    130             135             140
```

Leu Lys Thr Gly Glu Gln Phe Ala Ile Lys Ile Val Thr Arg Leu His
145   150   155   160

Pro Asp Ile Thr Lys Ala Lys Ala Ala Ala Ser Ala Glu Ala Thr Lys
                165   170   175

Ala Ala Gln Ser Glu Lys Asn Lys Glu Ile Arg Thr Val Arg Glu Ala
            180   185   190

Ala Leu Ser Thr Leu Leu Arg His Pro Tyr Ile Cys Glu Ala Arg Asp
        195   200   205

Val Tyr Ile Thr Asn Ser His Tyr Tyr Met Val Phe Glu Phe Val Asp
    210   215   220

Gly Gly Gln Met Leu Asp Tyr Ile Ile Ser His Gly Lys Leu Lys Glu
225   230   235   240

Lys Gln Ala Arg Lys Phe Val Arg Gln Ile Gly Ser Ala Leu Ser Tyr
            245   250   255

Leu His Gln Asn Ser Val Val His Arg Asp Leu Lys Ile Glu Asn Ile
            260   265   270

Leu Ile Ser Lys Thr Gly Asp Ile Lys Ile Ile Asp Phe Gly Leu Ser
        275   280   285

Asn Leu Tyr Arg Arg Gln Ser Arg Leu Arg Thr Phe Cys Gly Ser Leu
    290   295   300

Tyr Phe Ala Ala Pro Glu Leu Leu Asn Ala Gln Pro Tyr Ile Gly Pro
305   310   315   320

Glu Val Asp Val Trp Ser Phe Gly Ile Val Leu Tyr Val Leu Val Cys
            325   330   335

Gly Lys Val Pro Phe Asp Asp Gln Asn Met Ser Ala Leu His Ala Lys
            340   345   350

Ile Lys Lys Gly Thr Val Glu Tyr Pro Ser Tyr Leu Ser Ser Asp Cys
    355   360   365

Lys Gly Leu Leu Ser Arg Met Leu Val Thr Asp Pro Leu Lys Arg Ala
    370   375   380

Thr Leu Glu Glu Val Leu Asn His Pro Trp Met Ile Arg Asn Tyr Glu
385   390   395   400

Gly Pro Pro Ala Ser Phe Ala Pro Glu Arg Ser Pro Ile Thr Leu Pro
            405   410   415

Leu Asp Pro Glu Ile Ile Arg Glu Met Asn Gly Phe Asp Phe Gly Pro
            420   425   430

Pro Glu Lys Ile Val Arg Glu Leu Thr Lys Val Ile Ser Ser Glu Ala
        435   440   445

```
Tyr Gln Ser Leu Ala Lys Thr Gly Phe Tyr Ser Gly Pro Asn Ser Ala
    450                 455             460

Asp Lys Lys Lys Ser Phe Phe Glu Phe Arg Ile Arg His Ala Ala His
465             470             475                     480

Asp Ile Glu Asn Pro Ile Leu Pro Ser Leu Ser Met Asn Thr Asp Ile
            485             490                 495

Tyr Asp Ala Phe His Pro Leu Ile Ser Ile Tyr Tyr Leu Val Ser Glu
            500             505             510

Arg Arg Val Tyr Glu Lys Gly Gly Asn Trp Asn Arg Ile Ala Lys Thr
        515             520             525

Pro Val Ser Ser Val Pro Ser Ser Pro Val Gln Pro Thr Ser Tyr Asn
    530             535             540

Arg Thr Leu Pro Pro Met Pro Glu Val Val Ala Tyr Lys Gly Asp Glu
545             550             555                     560

Glu Ser Pro Arg Val Ser Arg Asn Thr Ser Leu Ala Arg Arg Lys Pro
            565             570             575

Leu Pro Asp Thr Glu Ser His Ser Pro Ser Pro Ser Ala Thr Ser Ser
            580             585             590

Ile Lys Lys Asn Pro Ser Ser Ile Phe Arg Arg Phe Ser Ser Arg Arg
    595             600             605

Lys Gln Asn Lys Ser Ser Thr Ser Thr Leu Gln Ile Ser Ala Pro Leu
    610             615             620

Glu Thr Ser Gln Ser Pro Pro Thr Pro Arg Thr Lys Pro Ser His Lys
625             630             635                     640

Pro Pro Val Ser Tyr Lys Asn Lys Leu Val Thr Gln Ser Ala Ile Gly
            645             650             655

Arg Ser Thr Ser Val Arg Glu Gly Arg Tyr Ala Gly Ile Ser Ser Gln
            660             665             670

Met Asp Ser Leu Asn Met Asp Ser Thr Gly Pro Ser Ala Ser Asn Met
        675             680             685

Ala Asn Ala Pro Pro Ser Val Arg Asn Asn Arg Val Leu Asn Pro Arg
    690             695             700

Gly Ala Ser Leu Gly His Gly Arg Met Ser Thr Ser Thr Thr Asn Arg
705             710             715                     720

Gln Lys Gln Ile Leu Asn Glu Thr Met Gly Asn Pro Val Asp Lys Asn
            725             730                 735

Ser Thr Ser Pro Ser Lys Ser Thr Asp Lys Leu Asp Pro Ile Lys Pro
            740             745                 750
```

Val Phe Leu Lys Gly Leu Phe Ser Val Ser Thr Thr Ser Thr Lys Ser
    755   760   765

Thr Glu Ser Ile Gln Arg Asp Leu Ile Arg Val Met Gly Met Leu Asp
    770   775   780

Ile Glu Tyr Lys Glu Ile Lys Gly Gly Tyr Ala Cys Leu Tyr Lys Pro
785   790   795   800

Gln Gly Ile Arg Thr Pro Thr Lys Ser Thr Ser Val His Thr Arg Arg
         805   810   815

Lys Pro Ser Tyr Gly Ser Asn Ser Thr Thr Asp Ser Tyr Gly Ser Val
        820   825   830

Pro Asp Thr Val Pro Leu Asp Asp Asn Gly Glu Ser Pro Ala Ser Asn
      835   840   845

Leu Ala Phe Glu Ile Tyr Ile Val Lys Val Pro Ile Leu Ser Leu Arg
    850   855   860

Gly Val Ser Phe His Arg Ile Ser Gly Asn Ser Trp Gln Tyr Lys Thr
865   870   875   880

Leu Ala Ser Arg Ile Leu Asn Glu Leu Lys Leu
        885   890

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<211> 1212
<212> PRT
<213> Candida albicans

<400> 5
Met Asn Asn Gln Asp Pro Asp Ser Gln Tyr His Asn Lys Lys Val Tyr
  1   5   10   15

Pro Pro Asn Leu Pro Ser Ile Pro Pro Pro Gln Gln Pro Leu Ser
        20   25   30

Gly Arg Pro Ala Thr Pro Arg Met Leu Arg Ser Ile Ser Gly Thr Leu
    35   40   45

Lys Ser Lys Thr Glu Leu Ala His Ser Asp Lys Gly Gln Glu Ser Asn
    50   55   60

Asn Glu Thr Lys Asn Ser Asn Ser Pro His Tyr Val Pro Asp Thr His
65   70   75   80

Thr Arg Gln Pro Pro Pro Glu Ser Leu Lys Ser Asn Ile Gln Ala Pro
        85   90   95

Thr Ala Val His Gly Asn Gln Gln Lys Gly Ser Leu Leu Pro Pro Pro
        100   105   110

Ser Ile Pro Asn Pro Asn Thr Met Lys Pro Ala Pro Thr Pro Thr Gly
      115   120   125

Val Asp Gln Pro Pro Ala Lys Gln Lys Pro Ser Pro Ala Pro Lys Gln
    130   135   140

Pro Gln Pro Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Phe His
145   150   155   160

Arg Lys Ser Ile Gly Asp Trp Asn Phe Val Lys Thr Ile Gly Ala Gly
         165   170   175

Ser Met Gly Lys Val Lys Leu Ala Gln His Asn Ala Thr His Glu Ile
         180   185   190

Cys Ala Val Lys Ile Ile Pro Arg Ala Ala Lys Leu Tyr Gln Arg Ala
         195   200   205

His Ala Asn Asp Pro Pro Pro Gln Thr Thr Gln Glu Ala Ala Gln Arg
    210   215   220

His Lys Glu Phe Glu Lys Glu Val Ala Arg Asp Arg Arg Thr Ile Arg
225   230   235   240

Glu Gly Ala Leu Gly Arg Leu Leu Tyr His Pro Phe Ile Cys Arg Leu
         245   250   255

Tyr Glu Met Val Pro Met Thr Asn His Tyr Tyr Met Leu Phe Glu Tyr
         260   265   270

Ile Glu Gly Gly Gln Met Leu Asp Tyr Ile Val Ala His Gly Ser Leu
         275   280   285

Lys Glu Arg His Ala Arg Lys Phe Ala Arg Gly Ile Ala Ser Ala Leu
    290   295   300

Asp Tyr Cys His Arg Asn Asn Val Val His Arg Asp Leu Lys Ile Glu
305   310   315   320

Asn Ile Met Ile Asn Glu Lys Gly Asp Ile Lys Ile Ile Asp Phe Gly
         325   330   335

Leu Ser Asn Leu Tyr Ala Pro Lys Asn Leu Leu Lys Thr Tyr Cys Gly
         340   345   350

Ser Leu Tyr Phe Ala Ala Pro Glu Leu Leu Ser Ala Lys Pro Tyr Ile
         355   360   365

Gly Pro Glu Val Asp Val Trp Ser Phe Gly Val Val Leu Tyr Val Leu
    370   375   380

Val Cys Gly Lys Val Pro Phe Asp Asp Gln Ser Val Ser Val Leu His
385   390   395   400

Glu Lys Ile Lys Lys Gly Asn Val Glu Tyr Pro Ala Phe Leu Ser Arg
         405   410   415

Glu Cys Val Ser Leu Leu Ser Arg Met Leu Val Val Asp Pro Thr Lys
         420   425   430

```
Arg Ala Ser Leu Tyr Glu Val Cys Ser His Pro Trp Met Asn Lys Gly
        435                 440                 445

Tyr Asp Tyr Lys Val Asn Asn Tyr Leu Pro Arg Arg Glu Pro Leu Arg
        450                 455                 460

Leu Pro Leu Asp Pro Glu Ile Ile Lys Thr Ile Ala Asn Phe Glu Leu
465                 470                 475                 480

Gly Thr Val Gln Gly Val Ala Asp Glu Leu Thr Ser Ile Leu Thr Ser
            485                 490                 495

Val Glu Tyr Gln Met Ser Cys Glu Asn Trp Tyr Lys Ile Thr Glu Thr
            500                 505                 510

Gly Arg Glu Tyr Ala Ser Ser Gln Asn Ala Gln Ile Leu Pro Asp Pro
        515                 520                 525

Thr Gly Gly Phe His Pro Leu Val Ser Ile Tyr Tyr Leu Val Asp Glu
    530                 535                 540

Met Arg Lys Arg Lys Lys Ala Lys Glu Glu Ala Leu Lys Ala Gln Arg
545                 550                 555                 560

Arg Ala Gln Val Pro Thr Ile Ala Val Pro Thr Pro Lys Gln Gln Gln
            565                 570                 575

Gln Gln Gln Pro Gln Pro Ala Gln Pro Gln Pro Gln Pro Gln Pro Glu
            580                 585                 590

Val Ser Gln Pro Leu Pro Glu Pro Lys Pro Val Pro Pro Glu Glu Ile
        595                 600                 605

Ile Asn Pro Ala Val Ala Thr Gln Ala Gln Ala Asn Met Thr Ala Pro
    610                 615                 620

Lys Ile Val Glu Thr Phe Ser Glu Thr Pro Gln Arg Thr Leu Asp Pro
625                 630                 635                 640

Ser Lys Gln Ser Val Asp Glu Lys Pro Ser Ala Pro Gly Pro Ser Ile
            645                 650                 655

Ala Val Pro Glu Gln Ala His Thr Thr Ser Val Pro Ser Ser Phe Val
            660                 665                 670

Lys Thr Gln Thr Ser Ile Asp Glu Asp Gln Leu Ser Ile Pro Glu Gln
        675                 680                 685

Gln Ser Pro Arg Thr Ser Thr Pro Gln Thr Leu Asp Pro Ala Lys Val
    690                 695                 700

Val Gly Gly Ser Ser Gly Ser Ala Ile Ser Ala Pro Asn Ala Gly Ser
705                 710                 715                 720

Gly Ala Gly Phe Asn Ser Leu Leu Arg Arg Leu Ser Ser Lys Lys Tyr
            725                 730                 735
```

```
Lys Gly Ala Ser Ser Pro Lys Arg Ser Thr Ser Pro Ser Pro Asn Val
            740             745             750

Glu Gly Leu Ser Pro Gln Pro Thr Lys Ala Asp Pro Met Val Arg Arg
            755             760             765

Gly Val Ser Met Lys Val Thr Ala Lys Glu Lys Gln Thr Asn Thr Arg
        770             775             780

Pro Pro Lys Ser Glu Leu Ile Lys Lys Lys Pro Gln His Gly Arg Ser
785             790             795             800

Ser Ser Thr Ser Asn Lys Met Gln Gly Phe Ile Pro Val Glu Tyr Leu
                805             810             815

Pro Pro Leu Pro Thr Ile Asp Thr Asn Thr Asn Thr Ile Val Ser Asp
            820             825             830

Gly Ala Lys Gln Gln Asn Leu Thr Val Pro Ser Thr Ala Arg His Met
        835             840             845

His Pro Thr Ala Arg Ala Lys Ser Val Gly Gly Gly His Met Arg Lys
    850             855             860

Asp Ser Tyr Gly Arg Val Ser His Gly Ser Gln Asn Pro Leu Pro Pro
865             870             875             880

Leu Pro Thr Ser Met Ala Ser Gln Asn Ser Gln Glu Val Val Gly Lys
                885             890             895

Asp Thr Ser Glu Gly Phe Phe Asp Asp Val Gln Leu Asp Asp Val Gly
            900             905             910

Tyr Gln Glu Val Pro Gln Leu Thr Glu Ser Glu Ile Ile Glu Gln Tyr
        915             920             925

Asn Ile Ser Lys Pro Asn Ser Met Pro Ser Ile Glu His Cys Lys Thr
    930             935             940

Leu Phe Leu Lys Gly Phe Phe Ser Val Gln Thr Thr Ser Ala Lys Pro
945             950             955             960

Leu Pro Val Ile Arg Tyr Asn Ile Ile Asn Val Leu Ser Lys Leu Gly
            965             970             975

Val Lys Phe Gln Glu Val Lys Gly Gly Phe Val Cys Met His Thr Pro
        980             985             990

Ser Val Gln Pro Ser His Ser Asn Glu Leu Asp Glu Glu Asn Lys Leu
        995             1000            1005

Tyr Gly Asp Ala Phe Lys Ser Lys Ser Ser Asp Ser Phe Glu Ala Ala
    1010            1015            1020

Glu Pro Glu Gly Ser Lys Thr Pro Ser Arg Gln Pro Ser Leu Gln Leu
1025            1030            1035            1040
```

```
Pro Ser His Thr Pro Thr Thr Pro Ser Gly Pro Lys Ser His Lys Ser
              1045                1050                1055

Ser Asn Ser Ile Gly Ser Ile Gly Gly Asn Val Pro Arg Arg Lys Phe
              1060                1065                1070

Ser Ile Gly Asn Ala Phe Asn Thr Tyr Arg Lys Lys Asn Gly Ser Gln
            1075                1080                1085

Val Met Met Pro Pro Asn Thr Pro Ala Thr Ala Lys Val Ile His Gly
      1090                1095                1100

Leu Tyr Asp Asp Asp Asp Lys Glu Arg Asn Gly Glu Asp Asp Asp Asp
1105          '         1110                1115                1120

Glu Asp Asp Tyr Gly Tyr Asp Asp Ser Ala Asp Ser Leu Asn Gly Tyr
              1125                1130                1135

Gly Gly Gly Ser Asp Met Leu Ile Ser Ser Arg Ile Glu Gln Arg Ala
            1140                1145                1150

Lys His Gln Arg Thr Val Ser Ser Ser Ser Gln Lys Ala Ser Lys Ser
            1155                1160                1165

Pro Leu Lys Phe Glu Ile His Ile Val Lys Val Pro Leu Val Gly Leu
      1170                1175                1180

Tyr Gly Val Gln Phe Lys Lys Ile Leu Gly Asn Thr Trp Asn Tyr Lys
1185                1190                1195                1200

Thr Leu Ala Ser Gln Ile Leu Asn Glu Met Asn Leu
              1205                1210
```

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<210> 6
<211> 800
<212> PRT
<213> Saccharomyces cerevisiae

<400> 6
Met Ala Ser Val Pro Lys Arg His Thr Tyr Gly Gly Asn Val Val Thr
 1               5                  10                  15

Asp Arg Asp Arg His Ser Leu Gln Arg Asn Asn Glu Ile Leu His Pro
              20                25                  30

Ile His Lys Asn Gln Arg Lys His Ala Thr Phe Gly Pro Tyr Ile Ile
            35                40                  45

Gly Ser Thr Leu Gly Glu Gly Glu Phe Gly Lys Val Lys Leu Gly Trp
      50                55                  60

Thr Lys Ala Ser Ser Ser Asn Glu Val Pro Lys Gln Val Ala Ile Lys
 65                70                75                  80

Leu Ile Arg Arg Asp Thr Ile Lys Lys Asp Ala Asp Lys Glu Ile Lys
              85                90                  95
```

Ile Tyr Arg Glu Ile Asn Ala Leu Lys His Leu Thr His Pro Asn Ile
             100   105   110

Ile Tyr Leu Glu Glu Val Leu Gln Asn Ser Lys Tyr Ile Gly Ile Val
             115   120   125

Leu Glu Phe Val Ser Gly Gly Glu Phe Tyr Lys Tyr Ile Gln Arg Lys
    130   135   140

Arg Arg Leu Lys Glu Ser Ser Ala Cys Arg Leu Phe Ala Gln Leu Ile
145   150   155   160

Ser Gly Val Asn Tyr Met His Tyr Lys Gly Leu Val His Arg Asp Leu
                 165   170   175

Lys Leu Glu Asn Leu Leu Leu Asp Lys His Glu Asn Leu Val Ile Thr
                 180   185   190

Asp Phe Gly Phe Val Asn Glu Phe Phe Glu Asp Asn Glu Leu Met Lys
        195   200   205

Thr Ser Cys Gly Ser Pro Cys Tyr Ala Ala Pro Glu Leu Val Val Ser
    210   215   220

Thr Lys Ala Tyr Glu Ala Arg Lys Ala Asp Val Trp Ser Cys Gly Val
225   230   235   240

Ile Leu Tyr Ala Met Leu Ala Gly Tyr Leu Pro Trp Asp Asp Asp His
                 245   250   255

Glu Asn Pro Thr Gly Asp Asp Ile Ala Arg Leu Tyr Lys Tyr Ile Thr
             260   265   270

Gln Thr Pro Leu Lys Phe Pro Glu Tyr Ile Thr Pro Ile Pro Arg Asp
             275   280   285

Leu Leu Arg Arg Ile Leu Val Pro Asn Pro Arg Arg Arg Ile Asn Leu
    290   295   300

Gln Thr Ile Lys Arg His Val Trp Leu Lys Pro His Glu Ala Phe Leu
305   310   315   320

Ser Ile Gln Pro Asn Tyr Trp Asp Glu His Leu Gln Lys Glu Arg Pro
                 325   330   335

Lys Pro Pro Asn Lys Gly Asp Val Gly Arg His Ser Thr Tyr Ser Ser
             340   345   350

Ser Ala Ser Ser Tyr Ser Lys Ser Arg Asp Arg Asn Ser Leu Ile Ile
    355   360   365

Glu Ser Thr Leu Glu Gln His Arg Met Ser Pro Gln Leu Ala Thr Ser
    370   375   380

Arg Pro Ala Ser Pro Thr Phe Ser Thr Gly Ser Lys Val Val Leu Asn
385   390   395   400

Asp Thr Lys Asn Asp Met Lys Glu Ser Asn Ile Asn Gly Glu Arg Thr
            405   410   415

Ser Ala Ser Cys Arg Tyr Thr Arg Asp Ser Lys Gly Asn Gly Gln Thr
            420   425   430

Gln Ile Glu Gln Val Ser Ala Arg His Ser Ser Arg Gly Asn Lys His
            435   440   445

Thr Ser Val Ala Gly Leu Val Thr Ile Pro Gly Ser Pro Thr Thr Ala
        450   455   460

Arg Thr Arg Asn Ala Pro Ser Ser Lys Leu Thr Glu His Val Lys Asp
465   470   475   480

Ser Ser Gln Thr Ser Phe Thr Gln Glu Glu Phe His Arg Ile Gly Asn
                485   490   495

Tyr His Val Pro Arg Ser Arg Pro Arg Pro Thr Ser Tyr Tyr Pro Gly
            500   505   510

Leu Ser Arg Asn Thr Ala Asp Asn Ser Leu Ala Asp Ile Pro Val Asn
        515   520   525

Lys Leu Gly Ser Asn Gly Arg Leu Thr Asp Ala Lys Asp Pro Val Pro
        530   535   540

Leu Asn Ala Ile His Asp Thr Asn Lys Ala Thr Ile Ser Asn Asn Ser
545   550   555   560

Ile Met Leu Leu Ser Glu Gly Pro Ala Ala Lys Thr Ser Pro Val Asp
                565   570   575

Tyr His Tyr Ala Ile Gly Asp Leu Asn His Gly Asp Lys Pro Ile Thr
            580   585   590

Glu Val Ile Asp Lys Ile Asn Lys Asp Leu Thr His Lys Ala Ala Glu
            595   600   605

Asn Gly Phe Pro Arg Glu Ser Ile Asp Pro Glu Ser Thr Ser Thr Ile
        610   615   620

Leu Val Thr Lys Glu Pro Thr Asn Ser Thr Asp Glu Asp His Val Glu
625   630   635   640

Ser Gln Leu Glu Asn Val Gly His Ser Ser Asn Lys Ser Asp Ala Ser
                645   650   655

Ser Asp Lys Asp Ser Lys Lys Ile Tyr Glu Lys Lys Arg Phe Ser Phe
            660   665   670

Met Ser Leu Tyr Ser Ser Leu Asn Gly Ser Arg Ser Thr Val Glu Ser
        675   680   685

Arg Thr Ser Lys Gly Asn Ala Pro Pro Val Ser Ser Arg Asn Pro Ser
        690   695   700

Gly Gln Ser Asn Arg Ser Asn Ile Lys Ile Thr Gln Gln Gln Pro Arg
705   710   715   720

Asn Leu Ser Asp Arg Val Pro Asn Pro Asp Lys Lys Ile Asn Asp Asn
                725   730   735

Arg Ile Arg Asp Asn Ala Pro Ser Tyr Ala Glu Ser Glu Asn Pro Gly
            740   745   750

Arg Ser Val Arg Ala Ser Val Met Val Ser Thr Leu Arg Glu Glu Asn
        755   760   765

Arg Ser Glu Leu Ser Asn Glu Gly Asn Asn Val Glu Ala Gln Thr Ser
    770   775   780

Thr Ala Arg Lys Val Leu Asn Phe Phe Lys Arg Arg Ser Met Arg Val
785   790   795   800

<210> 7
<211> 865
<212> PRT
<213> Saccharomyces cerevisiae

<400> 7
Met Ser Tyr Thr Asn Lys Arg His Thr Tyr Tyr Gly Gly Phe Thr Asn
 1   5   10   15

Asp Leu Ser Asp Thr Phe Gln Tyr Pro Gln Arg Thr Asp Glu Gln Arg
            20   25   30

Arg Lys His Val Thr Phe Gly Pro Tyr Ile Leu Gly Ser Thr Leu Gly
        35   40   45

Glu Gly Glu Phe Gly Lys Val Lys Leu Gly Trp Pro Lys Asn Phe Ser
    50   55   60

Asn Ser Ser Asn Ser Thr Phe Asp Phe Pro Lys Gln Val Ala Ile Lys
 65   70   75   80

Leu Ile Lys Arg Asp Ser Ile Ser Asn Asp Tyr Arg Lys Glu Val Lys
            85   90   95

Ile Tyr Arg Glu Ile Asn Ala Leu Lys His Leu Ser His Pro Asn Ile
        100   105   110

Val Lys Leu Glu Glu Val Leu Gln Asn Ser Arg Tyr Ile Gly Ile Val
        115   120   125

Leu Glu Tyr Ala Cys Gly Gly Glu Phe Tyr Lys Tyr Ile Gln Lys Lys
    130   135   140

Arg Arg Leu Lys Glu Met Asn Ala Cys Arg Leu Phe Ser Gln Leu Ile
145   150   155   160

Ser Gly Val His Tyr Ile His Ser Lys Gly Leu Val His Arg Asp Leu
                165   170   175

```
Lys Leu Glu Asn Leu Leu Leu Asp Lys Asn Glu Asn Leu Val Ile Thr
            180                 185                 190

Asp Phe Gly Phe Val Asn Glu Phe Cys Ser Arg Asn Glu Leu Met Lys
            195                 200                 205

Thr Ser Cys Gly Ser Pro Cys Tyr Ala Ala Pro Glu Leu Val Ile Ser
    210                 215                 220

Ala Glu Pro Tyr Glu Ala Arg Lys Ala Asp Ile Trp Ser Cys Gly Val
225                 230                 235                 240

Ile Leu Tyr Ala Ile Leu Ala Gly Tyr Leu Pro Trp Asp Asp Asp Pro
            245                 250                 255

Asn Asn Pro Glu Gly Ser Asp Ile Gly Arg Leu Tyr Asn Tyr Ile Asn
            260                 265                 270

Ser Thr Pro Leu Lys Phe Pro Asp Tyr Ile Leu Pro Ile Pro Arg Asp
    275                 280                 285

Leu Leu Arg Arg Met Leu Val Ser Asp Pro Lys Lys Arg Ile Asn Leu
    290                 295                 300

Lys Gln Ile Lys Lys His Glu Trp Leu Lys Pro His Ser Ser Phe Leu
305                 310                 315                 320

Ser Ile Thr Pro Asp Glu Trp Asp Lys Leu Asn Asn Thr Gln Ser Val
            325                 330                 335

Phe Arg Leu Ala Lys Pro Arg Arg Arg Tyr Gly Ser Arg Pro Gln Ser
            340                 345                 350

Ser Cys Ser Thr Ser Ser Leu Gly Ser Arg Ser Asp Lys Arg Asp Ser
    355                 360                 365

Leu Val Ile Asp Ser Thr Leu Ile Thr Phe Pro Ala Pro Pro Gln Glu
    370                 375                 380

Ser Gln Asn His Ile Ile Thr Arg Pro Ala Ser Ile Ala Ser Asp Gln
385                 390                 395                 400

Arg Leu Ser Pro Ile Arg Arg Ser Asn Arg His Asn Arg Ser Asn Ser
            405                 410                 415

Ala Ala Ser Val Ala Leu Gln Ala Val Val Asn Ala Asp Arg Glu Tyr
            420                 425                 430

Val Leu Ser His Glu Gln Ser Leu Ser Pro Val Gln Asn Ile Arg Gln
    435                 440                 445

Thr Thr Gly Asn Met Thr Ala Ser Leu Ser Pro Pro Pro Ala Ile Ser
    450                 455                 460

Pro Gly Asp Ile Ile Ile Glu Thr Thr Pro Ile Lys Arg Asn Thr Ile
465                 470                 475                 480
```

Ser Gly Ser Ser Ile Val Pro Ser Leu Glu Glu Glu Ser Ser Thr Thr
            485   490   495

Met Gln Thr Ser Lys Ile Gln Pro Asn Asn Met Ala Ser Ser Gln Asn
            500   505   510

His Gln Tyr Asn Lys Asn Lys Thr Gln Asn Ser Leu Gln Ser Ala Lys
            515   520   525

Asn Phe Tyr Arg Thr Ser Ser Ser Ser His Thr Lys Pro Arg Pro Thr
            530   535   540

Ser Tyr His Pro Gly Ser Tyr Thr Thr Pro Pro Tyr Asn Ser Asn Thr
545   550   555   560

Leu Ser Ile Tyr Glu Ile Asn Glu Lys Ala Lys Ser Ser Ala Ser Ser
            565   570   575

Gln Thr Leu Asn Gln Arg Asp Thr Ser Pro Phe Asp Ser Thr Pro Tyr
            580   585   590

Leu Ala Leu Asp Thr Cys Ile Thr Ser Ser Ser Ser Ile Glu Ser Ser
            595   600   605

Pro Lys Leu Ile Thr His Gly Gln Phe Ser Val Ala Lys Pro Ser Val
            610   615   620

Asp Leu Gln Ser Val Ser Gly Asp Leu Ile Lys Tyr Lys Arg Asp Ala
625   630   635   640

Asp Val Val Thr Arg Ile Tyr Asp Glu Lys Tyr Lys Gln Lys Arg Lys
            645   650   655

Ser Leu Arg Tyr Ser Gly Ile Phe Ser Asp Ile Ser Cys Asp Thr Val
            660   665   670

Thr Glu Glu Ser Asp Glu Leu Arg Pro Pro Glu Ser Pro Leu Gln Gln
            675   680   685

His Glu Gly Gln Glu Ser Ile Asp Lys Ala Lys Thr Glu Asp Thr Ser
            690   695   700

Glu Lys Gly Ser Lys Ser Ser Asn Ile Ala Lys Ala Thr Ala Gln Lys
705   710   715   720

His Val Asn Asn His Leu Glu Arg Ser Leu Asn Glu Ala Glu Ser Thr
            725   730   735

Lys Lys Arg Phe Ser Phe Leu Ser Leu Tyr Ser Tyr Asp Thr Ser Lys
            740   745   750

Ser Ser Leu Tyr Ser Ser Met Asp Ser Lys Arg Lys Pro Ser Pro Pro
            755   760   765

Ser Gln Arg Arg Pro Lys Lys Asp Asp Ser Tyr Gln Thr Asn Ser Lys
            770   775   780

```
Asn His Tyr Ile Thr Ala Ser Asn Met Gln Thr Ser His Gln Val Ser
785             790             795             800

Lys Asp Leu Pro Ala Pro Thr Met Val Gln Asn Lys Cys Thr Leu Glu
            805             810             815

Thr Lys Lys Ala Val Arg Ser Asn Arg Ser Ser Ile Met Val Ser Glu
            820             825             830

Val Asn Lys Ala Ser Val Asp Asn Lys Ala Ala Gln Ser Pro Glu His
            835             840             845

Ser Thr Ala Lys Arg Val Leu Gly Phe Phe Lys Arg Arg Ser Met Lys
    850             855             860

Ile
865


<210> 8
<211> 994
<212> PRT
<213> Candida albicans

<400> 8
Met Ser Thr Ile Pro Ser Gln Val Glu Ile Asn Phe Asn Lys Ile His
  1             5               10              15

Gln Arg Ser Asn Ser Ser Ser Ser Thr Ser Ser Tyr Arg Ile Pro Ser
            20              25              30

Gly Asn Ser Cys Ile Pro Arg Thr Val Glu Met Pro Ser Leu Pro Pro
            35              40              45

Thr Ser Thr His His Gln His Gln Gln Met Pro Ser Ser Ser Ser His
    50              55              60

Ala His Ile Ala Lys Lys Ile His Arg Glu Val Arg Phe Gly Ala Tyr
 65             70              75              80

Ile Leu Gly Ser Thr Leu Gly Glu Gly Glu Phe Gly Lys Val Lys Leu
            85              90              95

Gly Trp Arg Lys Asp Gly Lys His Pro Ser Gln Val Ala Ile Lys Leu
            100             105             110

Ile Lys Arg Ser Thr Ile Thr Lys Asp Ser Asp Ser Glu Ile Lys Ile
            115             120             125

His Arg Glu Ile Asn Ser Leu Lys Leu Leu Asn His Pro Asn Ile Val
    130             135             140

Asn Leu Val Glu Val Met Lys Ser Gly Lys Tyr Ile Gly Ile Val Leu
145             150             155             160

Glu Tyr Ala Ser Gly Gly Glu Leu Phe Asp Tyr Ile Leu Gln His Lys
            165             170             175
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Tyr Leu Lys Glu Asn Val Ala Lys Lys Leu Phe Ala Gln Leu Val Ser
            180   185   190

Gly Val Asp Tyr Met His Ala Lys Gly Leu Ile His Arg Asp Leu Lys
            195   200   205

Leu Glu Asn Leu Leu Leu Asp Lys His Arg Asn Val Ile Ile Ser Asp
    210   215   220

Phe Gly Phe Val Asn Ser Tyr Asn Arg Asp Lys Asn Asp Leu Met Lys
225   230   235   240

Thr Ser Cys Gly Ser Pro Cys Tyr Ala Ala Pro Glu Leu Val Leu Ser
            245   250   255

Gln Thr Ala Tyr Glu Gly Arg Lys Val Asp Ile Trp Ser Leu Gly Val
            260   265   270

Ile Leu Tyr Ala Met Leu Ala Gly Tyr Leu Pro Phe Asp Asp Asp Pro
        275   280   285

Glu Asn Glu Asp Gly Ser Asp Ile Ile Lys Leu Tyr His Tyr Ile Cys
    290   295   300

Lys Thr Pro Leu Thr Phe Pro Glu Tyr Val Ser Pro Leu Ala Arg Asp
305   310   315   320

Leu Leu Arg Lys Ile Ile Val Ser Asp Pro Lys Lys Arg Ile Ser Ile
            325   330   335

Asp Asp Ile Arg Asn His Pro Trp Leu Ser Ser His Ala Asn Leu Leu
            340   345   350

Ser Ile Arg Gln Pro Glu Trp Asp Lys Val His Ser Glu Lys Gln Gln
            355   360   365

Pro Ile Ala Val Glu Pro Pro Gln Pro Asn Lys Arg Tyr Ser Met Ile
    370   375   380

Asn Glu Arg Thr Asn Ser Ser Ser Leu Met Ser Pro Ala Pro Arg Val
385   390   395   400

Thr His Thr Gln Pro Leu Ser Ser His Ala Arg Ser Tyr Ser Ser Thr
            405   410   415

Ser Ile Ser Leu Leu Tyr Ser Ser Pro Ser Ala Thr Pro Ser Met Ala
            420   425   430

Asn Ala Val Thr Asn Gly Glu Gly Ala Thr Thr Thr Thr Asn Gly
            435   440   445

Ser Ile Asn Glu Ser Asn Asp Thr Leu Gln Leu Ser Gly Thr Pro Ser
    450   455   460

Pro Lys Lys Pro Ser Thr Val Ser Pro Val Arg Gly His Gln Lys Ser
465   470   475   480

Ala Ser Ile Ser Asn Ser Tyr Ser Ser Ala Ser Ile Ala Leu Lys Ala
            485   490   495

Val Val His Glu Glu Asn Arg Leu His Asn His Gln Gln Ser Gln Gln
          500   505   510

Tyr Ile Pro Arg Ser Ser Thr Ile Ser Thr Ile Val Glu Ser Pro Thr
      515   520   525

Lys Ala Asn Thr Ala Thr Glu Thr Glu Thr Thr Asp Gly His Lys Ile
   530   535   540

Leu Leu Pro Pro Pro Ser Lys Asp Ala Gln Lys Leu Pro His Ala Ala
545   550   555   560

Lys Lys Pro Arg Pro Thr Ser Tyr His Pro Ser Ser Met Ser Ser Ala
          565   570   575

Leu Ile His Asn Asn Gln Asn Pro Thr Asp Val Leu Lys Met Pro Ser
      580   585   590

Pro Ile Asn Phe Pro Met Thr Gln Phe Ile Ser Thr Ser Pro Pro Lys
      595   600   605

Ser Asn Gly Ser Leu Asn Asp Ser Gly Asn Phe Thr Asn Cys Ser Pro
   610   615   620

Lys Ala Thr Ser Arg Arg Asn Ser Val Val Thr His Val His Val Asn
625   630   635   640

Gly Val Leu Ser Lys Glu Asn Leu Ile His Ser Ser Ser Ser Pro Asp
          645   650   655

Asn Lys Arg Asn Ser Val Leu Ser Tyr Leu Glu Asp Lys Ile Asp Thr
          660   665   670

Leu Glu Leu Thr Glu Ser His Ser Pro Ser Lys Asn Thr Phe Glu Glu
      675   680   685

Ile Val Asp Ala Ala Ile Ala Thr Pro Glu Ile Asn Gln Val Pro Val
   690   695   700

Phe Asp Ser Gln Thr Ser Pro Asn Gly Ile Gly Leu Asp Ile Lys His
705   710   715   720

Lys Glu Phe Asp Glu Thr Ser Leu Val Val Glu Lys Lys Ser Lys Glu
          725   730   735

Thr Val Ser Asp Ser Lys Ser Glu Glu Ser Thr Lys Glu Thr Gln Gln
          740   745   750

Gln Glu Asn Val Val Met Tyr Glu Pro Ile Val Pro Val Glu Glu Tyr
          755   760   765

Ile Lys Lys Pro Glu Glu Val Asn Ser Val Glu Ala Lys Gln Pro Glu
   770   775   780

Glu Val Lys Ser Glu Asp Lys Ser Leu Gln Gly Gln Lys Ser Gln Gln
785   790   795   800

Gln Gln Gln Gln Pro Glu Lys His Ser Ala Asp Ile Gly Lys Thr Lys
            805   810   815

Val Asp Leu Lys Lys Ser Ala Ser Gln Lys Lys Lys Val Lys Glu Glu
            820   825   830

Ser Ile Lys Lys Gln Lys Asp Val Asp Ser Lys Pro Ile Glu Arg Arg
            835   840   845

His Thr Ile Ala Ala Arg Arg His His Asn Asp Glu Asn Lys Glu Asn
    850   855   860

Lys Asp Val Lys Lys Arg Asn Arg Phe Ser Leu Leu Ser Phe Tyr Ser
865   870   875   880

Ser Tyr Asn Ser Ser Asn Ser Asn Val Ser Leu Ala Thr Ser Lys Val
            885   890   895

Pro Ser Asn Ser Glu Asn Asn Thr Thr Val Leu Lys Pro Thr Ser Met
            900   905   910

Asn Thr Thr Arg Lys Val Leu Glu Pro Ser Asn Glu Thr Asn Ile Met
    915   920   925

Arg Lys Glu Thr Lys Gln Thr Asn Ser Asn Gly Ser Thr Thr Ser Lys
    930   935   940

Ser Thr Thr Ser Ser Ser Ser Ser Ser Ala Pro Ala Ala Ser Ser Ser
945   950   955   960

Ser Ser Ser Ser Thr Ser Lys Arg Ala Ser Thr Ala Thr Lys Glu Thr
            965   970   975

Ser Ala Ala Arg Lys Val Met Asp Phe Phe Lys Arg Arg Ser Val Arg
            980   985   990

Val Gly

<210> 9
<211> 629
<212> PRT
<213> Schizosaccharomyces pombe

<400> 9
Met Asn Ala Gln Pro Phe His Asn Asn Thr Ser Asp Val Gln Ser Phe
  1   5   10   15

Gln Asp Ile Ile Ser Asn Ser Tyr Gln Lys Pro Leu Ser Leu Val Asp
            20   25   30

Ser Thr Asp Arg Ala Leu Pro Asp Ser Ser Leu Ser Ser Leu Ser Arg
            35   40   45

Ser Thr Phe Gln Phe His Lys His His Leu Ser Gly Asn Glu Asn Pro
        50   55   60

Gln Pro Ser Ser Glu Ser Pro Tyr Phe Thr Asn Asn Glu Arg Leu Asn
 65   70   75   80

Ser Ser Ser Phe Pro Gln Ile His Asp Asn Gln Leu Ser Pro Ser Phe
             85   90   95

Asn Thr Ser Tyr Gln Ala Ile Pro Ser Ser Ser Asn Arg Ser Arg
            100   105   110

Gly Gly Pro Tyr Thr Pro Ser Ile Arg Asp Asp Ser Leu Leu Ala Leu
        115   120   125

Leu Ser Phe Ser Ser Asn His Arg Leu His Ser Met Pro Ser Gln Leu
    130   135   140

Gln Pro Phe Asn Asn Ala Ser Ser Tyr Thr Thr Pro Met Ala Pro Phe
145   150   155   160

Thr Ala Ser Phe Ser Asn Lys Val Ser His Ser Ala Tyr Pro Thr Arg
            165   170   175

Arg Leu Pro Ser Gln Ala Lys Lys Thr Ser Ala Ile Glu Arg Val Pro
            180   185   190

Val Asn Leu Asn Phe Leu Gln Ser Asp Asn Leu Val Val Gln Ser Ser
        195   200   205

Pro Gln Thr Asn Phe Glu Asn Phe Glu Phe Pro Lys Lys Ile Pro Ser
    210   215   220

Lys Glu Asp Leu Glu Thr Arg Glu Val Leu Leu Leu Pro Pro Gln Thr
225   230   235   240

Ser Lys Leu Ser Asn Lys Asn Leu Asp Thr Lys Ser Phe Thr Asp Val
            245   250   255

Asn Lys Ile Ser Gln Gln Gly Phe Val Glu Ile Ser Ser Asn Ser Ser
            260   265   270

Lys Val Thr Pro Asn Thr Ser Leu His Gln Ser Phe Gly Ile Ala Ser
    275   280   285

Ser Ser Ser Asn Asn Tyr Met Gln Thr Ser Ser Glu Leu Thr Ser Ser
    290   295   300

Thr Glu Lys Met Asn Gly Ser His Pro Leu Gln Leu Ser Asn Lys Ser
305   310   315   320

Leu Leu Ser Ile His Leu Met Gln Ser Lys Asn Gln Gly His Val Ser
            325   330   335

Met Thr Gly Ser Asp Lys Leu Ser Ser His Val Gln Ser Glu Thr Glu
            340   345   350

Asn Ala Pro Val Ser Lys Pro Ser Lys Pro Asn Thr Leu Thr Glu Asp
        355   360   365

Glu Lys Pro Leu Gln Ser Thr Lys Leu Pro Gly Asn Ser Leu Thr Val
        370   375   380

Gly Glu Leu Tyr Gln Glu Pro Lys Ser Ile Gln Leu Pro Glu Leu Ser
385   390   395   400

Val Ser Arg Thr Thr Tyr Ser Ala Gln Ser Ser Ser Val Lys Asn Cys
            405   410   415

Asn Glu Arg Ile Pro Ser Ala Lys Ala Leu Lys Lys Gln Lys His Leu
            420   425   430

Val Pro Glu Asn Lys Ser Lys Leu Gln Tyr Val Trp Gln Lys Lys Glu
        435   440   445

Ser Leu Pro Tyr Ala Asn Leu Thr Ser Ala Ser Asn Thr His Phe Phe
        450   455   460

Leu Ser Glu Asn Gln Asn Asp Thr Ser Glu Arg Leu Thr Arg Thr Leu
465   470   475   480

Arg Lys Ser Thr Lys Asn Tyr Thr Phe Gly Ser Tyr Ile Leu Gly Arg
            485   490   495

Thr Ile Gly Thr Gly Glu Phe Gly Lys Val Lys Leu Gly Trp Pro Leu
            500   505   510

Pro Lys Ala Asn Ser Thr Ile His Arg Ser Thr Pro Gln Val Val Ile
        515   520   525

Lys Ile Val Leu Ser Thr Lys Gln Asn Cys Gln Thr Ser Arg Leu Met
        530   535   540

Arg Glu Val Ala Ile Leu Lys Gly Leu Gly Asn Asn His Pro His Ile
545   550   555   560

Val Lys Tyr Leu Asp Phe Val Lys Thr Lys His His Phe Gly Ile Val
            565   570   575

Leu Asp Tyr Val Asn Gly Gly Glu Leu Phe Asp Tyr Ile Leu Ala Arg
            580   585   590

Arg Arg Leu Glu Asp Ser Val Ala Cys Arg Leu Phe Ala Gln Leu Ile
        595   600   605

Ser Gly Val Ala Tyr Leu His Ser Arg Gly Val Val His Arg Asp Pro
        610   615   620

Tyr Ser Glu Ser Tyr
625

<210> 10
<211> 1142

<212> PRT
<213> Saccharomyces cerevisiae

<400> 10
Met Ala Ile Asn Gly Asn Ser Ile Pro Ala Ile Lys Asp Asn Thr Ile
 1   5   10   15

Gly Pro Trp Lys Leu Gly Glu Thr Leu Gly Leu Gly Ser Thr Gly Lys
            20   25   30

Val Gln Leu Ala Arg Asn Gly Ser Thr Gly Gln Glu Ala Ala Val Lys
        35   40   45

Val Ile Ser Lys Ala Val Phe Asn Thr Gly Asn Val Ser Gly Thr Ser
    50   55   60

Ile Val Gly Ser Thr Thr Pro Asp Ala Leu Pro Tyr Gly Ile Glu Arg
65   70   75   80

Glu Ile Ile Ile Met Lys Leu Leu Asn His Pro Asn Val Leu Arg Leu
                85   90   95

Tyr Asp Val Trp Glu Thr Asn Thr Asp Leu Tyr Leu Val Leu Glu Tyr
            100   105   110

Ala Glu Lys Gly Glu Leu Phe Asn Leu Leu Val Glu Arg Gly Pro Leu
        115   120   125

Pro Glu His Glu Ala Ile Arg Phe Phe Arg Gln Ile Ile Ile Gly Val
    130   135   140

Ser Tyr Cys His Ala Leu Gly Ile Val His Arg Asp Leu Lys Pro Glu
145   150   155   160

Asn Leu Leu Leu Asp His Lys Tyr Asn Ile Lys Ile Ala Asp Phe Gly
            165   170   175

Met Ala Ala Leu Glu Thr Glu Gly Lys Leu Leu Glu Thr Ser Cys Gly
            180   185   190

Ser Pro His Tyr Ala Ala Pro Glu Ile Val Ser Gly Ile Pro Tyr Gln
        195   200   205

Gly Phe Ala Ser Asp Val Trp Ser Cys Gly Val Ile Leu Phe Ala Leu
    210   215   220

Leu Thr Gly Arg Leu Pro Phe Asp Glu Glu Asp Gly Asn Ile Arg Thr
225   230   235   240

Leu Leu Leu Lys Val Gln Lys Gly Glu Phe Glu Met Pro Ser Asp Asp
            245   250   255

Glu Ile Ser Arg Glu Ala Gln Asp Leu Ile Arg Lys Ile Leu Thr Val
        260   265   270

Asp Pro Glu Arg Arg Ile Lys Thr Arg Asp Ile Leu Lys His Pro Leu
    275   280   285

Leu Gln Lys Tyr Pro Ser Ile Arg Asp Ser Lys Ser Ile Arg Gly Leu
    290   295   300

Pro Arg Glu Asp Thr Tyr Leu Thr Pro Leu Ser Glu Ser Asn Ser Ser
305   310   315   320

Ile Asp Ala Thr Ile Leu Gln Asn Leu Val Ile Leu Trp His Gly Arg
            325   330   335

Asp Pro Glu Gly Ile Lys Glu Lys Leu Arg Glu Pro Gly Ala Asn Ala
            340   345   350

Glu Lys Thr Leu Tyr Ala Leu Leu Tyr Arg Phe Lys Cys Asp Thr Gln
        355   360   365

Lys Glu Leu Ile Lys Gln Gln Gln Val Lys Lys Arg Gln Ser Ile Ser
    370   375   380

Ser Val Ser Val Ser Pro Ser Lys Lys Val Ser Thr Thr Pro Gln Arg
385   390   395   400

Arg Arg Asn Arg Glu Ser Leu Ile Ser Val Thr Ser Ser Arg Lys Lys
            405   410   415

Pro Ile Ser Phe Asn Lys Phe Thr Ala Ser Ser Ala Ser Ser Ser Asn
            420   425   430

Leu Thr Thr Pro Gly Ser Ser Lys Arg Leu Ser Lys Asn Phe Ser Ser
        435   440   445

Lys Lys Lys Leu Ser Thr Ile Val Asn Gln Ser Ser Pro Thr Pro Ala
    450   455   460

Ser Arg Asn Lys Arg Ala Ser Val Ile Asn Val Glu Lys Asn Gln Lys
465   470   475   480

Arg Ala Ser Ile Phe Ser Thr Thr Lys Lys Asn Lys Arg Ser Ser Arg
            485   490   495

Ser Ile Lys Arg Met Ser Leu Ile Pro Ser Met Lys Arg Glu Ser Val
            500   505   510

Thr Thr Lys Leu Met Ser Thr Tyr Ala Lys Leu Ala Glu Asp Asp Asp
        515   520   525

Trp Glu Tyr Ile Glu Lys Glu Thr Lys Arg Thr Ser Ser Asn Phe Ala
    530   535   540

Thr Leu Ile Asp Glu Ile Phe Glu Tyr Glu Lys Tyr Glu Gln Ile Arg
545   550   555   560

Lys Glu Lys Glu Glu Leu Glu Arg Lys Val Arg Glu Ala Lys Ala Arg
            565   570   575

Glu Glu Leu Glu Arg Arg Arg Arg Lys Gln Glu Glu Lys Glu Arg Ala
        580   585   590

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Arg Lys Leu Leu Glu Lys Glu Asp Leu Lys Arg Lys Gln Glu Glu Leu
        595             600             605

Lys Lys Gln Ile Glu Ile Asp Ile Ser Asp Leu Glu Gln Glu Leu Ser
    610             615             620

Lys His Lys Glu Glu Lys Leu Asp Gly Asn Ile Arg Ser Ile Ser Ala
625             630             635             640

Pro Met Glu Asn Glu Glu Lys Asn Ile Asn His Leu Glu Val Asp Ile
            645             650             655

Asp Asn Ile Leu Arg Arg Arg Asn Phe Ser Leu Gln Thr Arg Pro Val
            660             665             670

Ser Arg Leu Asp Pro Gly Ile Met Phe Ser Ser Pro Thr Glu Glu Val
        675             680             685

Ser Pro Val Glu Pro Lys Arg Thr Glu Asn Glu Arg Leu Thr Thr Glu
    690             695             700

Lys Lys Ile Leu Glu Thr Ile Arg Arg Ser Lys Phe Leu Gly Ser Ser
705             710             715             720

Phe Asn Ile Asp Lys Glu Leu Lys Leu Ser Lys Met Glu Tyr Pro Ser
            725             730             735

Ile Ile Ala Pro Gln Arg Leu Ser Glu Glu Arg Val Val Ser Asp Ser
            740             745             750

Asn Asp Gly Tyr Glu Ser Leu Ile Leu Pro Lys Asp Gly Asn Gly Val
        755             760             765

Ser Gln Leu Lys Asp Ser Thr Ala Thr Thr Ala Pro Val Ser Asp Gly
    770             775             780

Arg Leu Arg Lys Ile Ser Glu Ile Arg Val Pro Gln Phe Thr Arg Lys
785             790             795             800

Ser Arg His Phe Ser Glu Ser Asn Lys Arg Leu Ser Val Leu Ser Met
            805             810             815

Tyr Ser Thr Lys Glu Ser Phe Thr Asn Leu Val Asp Ile Leu Lys Asn
        820             825             830

Gly Asn Leu Asp Val Asn Asn Gln Gln Ser Gln Arg Ile Pro Thr Pro
        835             840             845

Arg Ser Ala Asp Asp Ser Glu Phe Leu Phe Glu Thr Val Asn Glu Glu
    850             855             860

Ala Glu Tyr Thr Gly Asn Ser Ser Asn Asp Glu Arg Leu Tyr Asp Val
865             870             875             880

Gly Asp Ser Thr Ile Lys Asp Lys Ser Ala Leu Lys Leu Asn Phe Ala
            885             890             895
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Asp Arg Phe Asn Gly Ser Asn Glu Ala Lys Gln Thr Asp Asn Leu His
            900   905   910

Leu Pro Ile Leu Pro Pro Leu Asn Gly Asp Asn Glu Leu Arg Lys Gln
            915   920   925

Asn Ser Gln Glu Gly Asp Gln Ala His Pro Lys Ile Lys Ser Met Ile
            930   935   940

Pro Glu Ser Gly Ser Ser Ser His Thr Glu Lys Glu Glu Glu Asn Glu
945   950   955   960

Glu Lys Glu Glu Lys Lys Pro Glu Gln His Lys Gln Glu Glu Asp Gln
                965   970   975

Glu Lys Arg Glu Lys Val Val Asp Asp Met Glu Pro Pro Leu Asn Lys
            980   985   990

Ser Val Gln Lys Ile Arg Glu Lys Asn Ala Gly Ser Gln Ala Lys Asp
            995   1000   1005

His Ser Lys Asp His Leu Lys Glu His Lys Gln Asp Lys Asn Thr Ala
    1010   1015   1020

Ile Gly Asn Gly Ser Phe Phe Arg Lys Phe Ser Lys Ser Ser Asp Lys
1025   1030   1035   1040

Thr Met Glu Leu Tyr Ala Lys Ile Ser Ala Lys Gln Leu Phe Asn Gly
                1045   1050   1055

Leu Glu Lys Leu Leu Arg Gly Trp Thr Gln Tyr Gly Leu Lys Asn Ile
            1060   1065   1070

Lys Ser His Pro Asn Asn Leu Thr Leu Thr Gly Lys Leu Ser Ser Asp
        1075   1080   1085

Asn Ile Phe Ser Leu Arg Ser Thr Leu Phe Glu Val Asn Ile Tyr Pro
    1090   1095   1100

Arg Gly Lys Met Ser Val Val Gln Phe Lys Lys Val Ser Gly Ser Phe
1105   1110   1115   1120

Lys Ala Val Lys Lys Leu Val Asn Glu Val Glu Asn Val Leu Asn Lys
                1125   1130   1135

Glu Gly Val Leu Gln Lys
            1140

<210> 11
<211> 1518
<212> PRT
<213> Saccharomyces cerevisiae

<400> 11
Met Thr Gly His Val Ser Lys Thr Ser His Val Pro Lys Gly Arg Pro
  1   5   10   15

Ser Ser Leu Ala Lys Lys Ala Ala Lys Arg Ala Met Ala Lys Val Asn
                20   25   30

Ser Asn Pro Lys Arg Ala Ser Gly His Leu Glu Arg Val Val Gln Ser
                35   40   45

Val Asn Asp Ala Thr Lys Arg Leu Ser Gln Pro Asp Ser Thr Val Ser
            50   55   60

Val Ala Thr Lys Ser Ser Lys Arg Lys Ser Arg Asp Thr Val Gly Pro
65   70   75   80

Trp Lys Leu Gly Lys Thr Leu Gly Lys Gly Ser Ser Gly Arg Val Arg
                85   90   95

Leu Ala Lys Asn Met Glu Thr Gly Gln Leu Ala Ala Ile Lys Ile Val
            100   105   110

Pro Lys Lys Lys Ala Phe Val His Cys Ser Asn Asn Gly Thr Val Pro
        115   120   125

Asn Ser Tyr Ser Ser Ser Met Val Thr Ser Asn Val Ser Ser Pro Ser
    130   135   140

Ile Ala Ser Arg Glu His Ser Asn His Ser Gln Thr Asn Pro Tyr Gly
145   150   155   160

Ile Glu Arg Glu Ile Val Ile Met Lys Leu Ile Ser His Thr Asn Val
            165   170   175

Met Ala Leu Phe Glu Val Trp Glu Asn Lys Ser Glu Leu Tyr Leu Val
        180   185   190

Leu Glu Tyr Val Asp Gly Gly Glu Leu Phe Asp Tyr Leu Val Ser Lys
        195   200   205

Gly Lys Leu Pro Glu Arg Glu Ala Ile His Tyr Phe Lys Gln Ile Val
    210   215   220

Glu Gly Val Ser Tyr Cys His Ser Phe Asn Ile Cys His Arg Asp Leu
225   230   235   240

Lys Pro Glu Asn Leu Leu Leu Asp Lys Lys Asn Arg Arg Ile Lys Ile
            245   250   255

Ala Asp Phe Gly Met Ala Ala Leu Glu Leu Pro Asn Lys Leu Leu Lys
        260   265   270

Thr Ser Cys Gly Ser Pro His Tyr Ala Ser Pro Glu Ile Val Met Gly
    275   280   285

Arg Pro Tyr His Gly Gly Pro Ser Asp Val Trp Ser Cys Gly Ile Val
    290   295   300

Leu Phe Ala Leu Leu Thr Gly His Leu Pro Phe Asn Asp Asp Asn Ile
305   310   315   320

Lys Lys Leu Leu Leu Lys Val Gln Ser Gly Lys Tyr Gln Met Pro Ser
            325   330   335

Asn Leu Ser Ser Glu Ala Arg Asp Leu Ile Ser Lys Ile Leu Val Ile
            340   345   350

Asp Pro Glu Lys Arg Ile Thr Thr Gln Glu Ile Leu Lys His Pro Leu
            355   360   365

Ile Lys Lys Tyr Asp Asp Leu Pro Val Asn Lys Val Leu Arg Lys Met
    370   375   380

Arg Lys Asp Asn Met Ala Arg Gly Lys Ser Asn Ser Asp Leu His Leu
385   390   395   400

Leu Asn Asn Val Ser Pro Ser Ile Val Thr Leu His Ser Lys Gly Glu
            405   410   415

Ile Asp Glu Ser Ile Leu Arg Ser Leu Gln Ile Leu Trp His Gly Val
            420   425   430

Ser Arg Glu Leu Ile Thr Ala Lys Leu Leu Gln Lys Pro Met Ser Glu
            435   440   445

Glu Lys Leu Phe Tyr Ser Leu Leu Leu Gln Tyr Lys Gln Arg His Ser
    450   455   460

Ile Ser Leu Ser Ser Ser Ser Glu Asn Lys Lys Ser Ala Thr Glu Ser
465   470   475   480

Ser Val Asn Glu Pro Arg Ile Glu Tyr Ala Ser Lys Thr Ala Asn Asn
            485   490   495

Thr Gly Leu Arg Ser Glu Asn Asn Asp Val Lys Thr Leu His Ser Leu
            500   505   510

Glu Ile His Ser Glu Asp Thr Ser Thr Val Asn Gln Asn Asn Ala Ile
    515   520   525

Thr Gly Val Asn Thr Glu Ile Asn Ala Pro Val Leu Ala Gln Lys Ser
    530   535   540

Gln Phe Ser Ile Asn Thr Leu Ser Gln Pro Glu Ser Asp Lys Ala Glu
545   550   555   560

Ala Glu Ala Val Thr Leu Pro Pro Ala Ile Pro Ile Phe Asn Ala Ser
            565   570   575

Ser Ser Arg Ile Phe Arg Asn Ser Tyr Thr Ser Ile Ser Ser Arg Ser
            580   585   590

Arg Arg Ser Leu Arg Leu Ser Asn Ser Arg Leu Ser Leu Ser Ala Ser
    595   600   605

Thr Ser Arg Glu Thr Val His Asp Asn Glu Met Pro Leu Pro Gln Leu
    610   615   620

Pro Lys Ser Pro Ser Arg Tyr Ser Leu Ser Arg Arg Ala Ile His Ala
625   630   635   640

Ser Pro Ser Thr Lys Ser Ile His Lys Ser Leu Ser Arg Lys Asn Ile
                645   650   655

Ala Ala Thr Val Ala Ala Arg Arg Thr Leu Gln Asn Ser Ala Ser Lys
                660   665   670

Arg Ser Leu Tyr Ser Leu Gln Ser Ile Ser Lys Arg Ser Leu Asn Leu
            675   680   685

Asn Asp Leu Leu Val Phe Asp Asp Pro Leu Pro Ser Lys Lys Pro Ala
    690   695   700

Ser Glu Asn Val Asn Lys Ser Glu Pro His Ser Leu Glu Ser Asp Ser
705   710   715   720

Asp Phe Glu Ile Leu Cys Asp Gln Ile Leu Phe Gly Asn Ala Leu Asp
                725   730   735

Arg Ile Leu Glu Glu Glu Glu Asp Asn Glu Lys Glu Arg Asp Thr Gln
            740   745   750

Arg Gln Arg Gln Asn Asp Thr Lys Ser Ser Ala Asp Thr Phe Thr Ile
        755   760   765

Ser Gly Val Ser Thr Asn Lys Glu Asn Glu Gly Pro Glu Tyr Pro Thr
    770   775   780

Lys Ile Glu Lys Asn Gln Phe Asn Met Ser Tyr Lys Pro Ser Glu Asn
785   790   795   800

Met Ser Gly Leu Ser Ser Phe Pro Ile Phe Glu Lys Glu Asn Thr Leu
                805   810   815

Ser Ser Ser Tyr Leu Glu Glu Gln Lys Pro Lys Arg Ala Ala Leu Ser
            820   825   830

Asp Ile Thr Asn Ser Phe Asn Lys Met Asn Lys Gln Glu Gly Met Arg
        835   840   845

Ile Glu Lys Lys Ile Gln Arg Glu Gln Leu Gln Lys Lys Asn Asp Arg
    850   855   860

Pro Ser Pro Leu Lys Pro Ile Gln His Gln Glu Leu Arg Val Asn Ser
865   870   875   880

Leu Pro Asn Asp Gln Gly Lys Pro Ser Leu Ser Leu Asp Pro Arg Arg
            885   890   895

Asn Ile Ser Gln Pro Val Asn Ser Lys Val Glu Ser Leu Leu Gln Gly
        900   905   910

Leu Lys Phe Lys Lys Glu Pro Ala Ser His Trp Thr His Glu Arg Gly
        915   920   925

Ser Leu Phe Met Ser Glu His Val Glu Asp Glu Lys Pro Val Lys Ala
   930   935   940

Ser Asp Val Ser Ile Glu Ser Ser Tyr Val Pro Leu Thr Thr Val Ala
945   950   955   960

Thr Ser Ser Arg Asp Pro Ser Val Leu Ala Glu Ser Ser Thr Ile Gln
             965   970   975

Lys Pro Met Leu Ser Leu Pro Ser Ser Phe Leu Asn Thr Ser Met Thr
             980   985   990

Phe Lys Asn Leu Ser Gln Ile Leu Ala Asp Asp Gly Asp Asp Lys His
         995   1000   1005

Leu Ser Val Pro Gln Asn Gln Ser Arg Ser Val Ala Met Ser His Pro
   1010   1015   1020

Leu Arg Lys Gln Ser Ala Lys Ile Ser Leu Thr Pro Arg Ser Asn Leu
1025   1030   1035   1040

Asn Ala Asn Leu Ser Val Lys Arg Asn Gln Gly Ser Pro Gly Ser Tyr
             1045   1050   1055

Leu Ser Asn Asp Leu Asp Gly Ile Ser Asp Met Thr Phe Ala Met Glu
         1060   1065   1070

Ile Pro Thr Asn Thr Phe Thr Ala Gln Ala Ile Gln Leu Met Asn Asn
         1075   1080   1085

Asp Thr Asp Asn Asn Lys Ile Asn Thr Ser Pro Lys Ala Ser Ser Phe
   1090   1095   1100

Thr Lys Glu Lys Val Ile Lys Ser Ala Ala Tyr Ile Ser Lys Glu Lys
1105   1110   1115   1120

Glu Pro Asp Asn Ser Asp Thr Asn Tyr Ile Pro Asp Tyr Thr Ile Pro
             1125   1130   1135

Asn Thr Tyr Asp Glu Lys Ala Ile Asn Ile Phe Glu Asp Ala Pro Ser
         1140   1145   1150

Asp Glu Gly Ser Leu Asn Thr Ser Ser Ser Glu Ser Asp Ser Arg Ala
         1155   1160   1165

Ser Val His Arg Lys Ala Val Ser Ile Asp Thr Met Ala Thr Thr Asn
   1170   1175   1180

Val Leu Thr Pro Ala Thr Asn Val Arg Val Ser Leu Tyr Trp Asn Asn
1185   1190   1195   1200

Asn Ser Ser Gly Ile Pro Arg Glu Thr Thr Glu Glu Ile Leu Ser Lys
             1205   1210   1215

Leu Arg Leu Ser Pro Glu Asn Pro Ser Asn Thr His Met Gln Lys Arg
         1220   1225   1230

Phe Ser Ser Thr Arg Gly Ser Arg Asp Ser Asn Ala Leu Gly Ile Ser
      1235   1240   1245

Gln Ser Leu Gln Ser Met Phe Lys Asp Leu Glu Glu Asp Gln Asp Gly
    1250   1255   1260

His Thr Ser Gln Ala Asp Ile Leu Glu Ser Ser Met Ser Tyr Ser Lys
1265   1270   1275   1280

Arg Arg Pro Ser Glu Glu Ser Val Asn Pro Lys Gln Arg Val Thr Met
            1285   1290   1295

Leu Phe Asp Glu Glu Glu Glu Glu Ser Lys Lys Val Gly Gly Gly Lys
          1300   1305   1310

Ile Lys Glu Glu His Thr Lys Leu Asp Asn Lys Ile Ser Glu Glu Ser
    1315   1320   1325

Ser Gln Leu Val Leu Pro Val Val Glu Lys Lys Glu Asn Ala Asn Asn
    1330   1335   1340

Thr Glu Asn Asn Tyr Ser Lys Ile Pro Lys Pro Ser Thr Ile Lys Val
1345   1350   1355   1360

Thr Lys Asp Thr Ala Met Glu Ser Asn Thr Gln Thr His Thr Lys Lys
            1365   1370   1375

Pro Ile Leu Lys Ser Val Gln Asn Val Glu Val Glu Glu Ala Pro Ser
            1380   1385   1390

Ser Asp Lys Lys Asn Trp Phe Val Lys Leu Phe Gln Asn Phe Ser Ser
          1395   1400   1405

His Asn Asn Ala Thr Lys Ala Ser Lys Asn His Val Thr Asn Ile Ser
    1410   1415   1420

Phe Asp Asp Ala His Met Leu Thr Leu Asn Glu Phe Asn Lys Asn Ser
1425   1430   1435   1440

Ile Asp Tyr Gln Leu Lys Asn Leu Asp His Lys Phe Gly Arg Lys Val
            1445   1450   1455

Val Glu Tyr Asp Cys Lys Phe Val Lys Gly Asn Phe Lys Phe Lys Ile
          1460   1465   1470

Lys Ile Thr Ser Thr Pro Asn Ala Ser Ser Val Ile Thr Val Lys Lys
    1475   1480   1485

Arg Ser Lys His Ser Asn Thr Ser Ser Asn Lys Ala Phe Glu Lys Phe
    1490   1495   1500

Asn Asp Asp Val Glu Arg Val Ile Arg Asn Ala Gly Arg Ser
1505   1510   1515

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<211> 1037

<212> PRT
<213> Saccharomyces cerevisiae

<400> 12

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Met Thr Val Ala Asn Thr Glu Thr His Ser Ala Ala Lys Pro Ser Ser
 1               5                  10                  15

Thr Ile Gly Pro Trp Lys Leu Gly Glu Thr Leu Gly Phe Gly Ser Thr
            20                  25                  30

Gly Lys Val Gln Leu Ala Gln His Glu Arg Thr Gly His Arg Thr Ala
        35                  40                  45

Val Lys Val Ile Ser Lys Ser Ile Phe Asn Asn Asn Gly Asn His Ser
    50                  55                  60

Asn Asp Asp Ser Val Leu Pro Tyr Asn Ile Glu Arg Glu Ile Val Ile
65                  70                  75                      80

Met Lys Leu Leu Ser His Pro Asn Val Leu Ser Leu Tyr Asp Val Trp
                85                  90                  95

Glu Thr Asn Asn Asn Leu Tyr Leu Ile Leu Glu Tyr Ala Glu Lys Gly
                100                 105                 110

Glu Leu Phe Asn Leu Leu Val Asp His Gly Pro Leu Pro Glu Arg Glu
        115                 120                 125

Ala Ile Asn Cys Phe Arg Gln Ile Ile Ile Gly Ile Ser Tyr Cys His
    130                 135                 140

Ala Leu Gly Ile Val His Arg Asp Leu Lys Pro Glu Asn Leu Leu Leu
145                 150                 155                     160

Asp Ser Phe Tyr Asn Ile Lys Ile Ala Asp Phe Gly Met Ala Ala Leu
            165                 170                 175

Gln Thr Asp Ala Asp Leu Leu Glu Thr Ser Cys Gly Ser Pro His Tyr
            180                 185                 190

Ala Ala Pro Glu Ile Val Ser Gly Leu Pro Tyr Glu Gly Phe Ala Ser
        195                 200                 205

Asp Val Trp Ser Cys Gly Val Ile Leu Phe Ala Leu Leu Thr Gly Arg
    210                 215                 220

Leu Pro Phe Asp Glu Glu Asn Gly Asn Val Arg Asp Leu Leu Leu Lys
225                 230                 235                     240

Val Gln Lys Gly Gln Phe Glu Met Pro Asn Asp Thr Glu Ile Ser Arg
            245                 250                 255

Asp Ala Gln Asp Leu Ile Gly Lys Ile Leu Val Val Asp Pro Arg Gln
            260                 265                 270

Arg Ile Lys Ile Arg Asp Ile Leu Ser His Pro Leu Leu Lys Lys Tyr
            275                 280                 285
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Gln Thr Ile Lys Asp Ser Lys Ser Ile Lys Asp Leu Pro Arg Glu Asn
    290   295   300

Thr Tyr Leu Tyr Pro Leu Ala Asp Ser Asn Asn His Thr Ser Ala Ser
305   310   315   320

Ile Asp Asp Ser Ile Leu Gln Asn Leu Val Val Leu Trp His Gly Arg
            325   330   335

His Ala Asp Asp Ile Val Ser Lys Leu Lys Glu Asn Gly Thr Asn Lys
            340   345   350

Glu Lys Ile Leu Tyr Ala Leu Leu Tyr Arg Phe Lys Leu Asp Ser Val
        355   360   365

Arg Gly Ser Asn Lys Lys Asn Arg Asn Lys Ile Lys Lys Thr Lys Lys
    370   375   380

Asn Lys Arg Ser Ser Thr Leu Ser Ser Ser Ser Leu Leu Leu Asn
385   390   395   400

Asn Arg Ser Ile Gln Ser Thr Pro Arg Arg Arg Thr Ser Lys Arg His
            405   410   415

Ser Arg Glu Phe Ser Ser Ser Arg Lys Arg Ser Ser Phe Leu Leu Ser
            420   425   430

Ser Asn Pro Thr Asp Ser Ser Pro Ile Pro Leu Arg Ser Ser Lys Arg
        435   440   445

Ile Thr His Ile Asn Val Ala Ser Ala Asn Thr Gln Ala Thr Pro Ser
    450   455   460

Gly Val Pro Asn Pro His Lys Arg Asn Ser Lys Lys Arg Ser Ser Lys
465   470   475   480

Arg Leu Ser Tyr Met Pro Asn Thr Lys Arg Ser Ser Leu Thr Ser Lys
            485   490   495

Ser Leu Ser Asn Phe Thr Asn Leu Ile Asp Asp Asp Trp Glu Tyr
        500   505   510

Ile Glu Lys Asp Ala Lys Arg Thr Ser Ser Asn Phe Ala Thr Leu Ile
    515   520   525

Asp Glu Ile Phe Glu Pro Glu Lys Phe Glu Leu Ala Lys Arg Glu Lys
    530   535   540

Ala Glu Leu Gln Arg Lys Val Gln Glu Ala Lys Arg Gln Ser Val Asn
545   550   555   560

Ala Gln Lys Ile Asn Glu Asp Glu Phe Gly Ser Glu Val Ser Asp Gly
            565   570   575

Met Lys Glu Leu Lys Lys Ile Asn Asp Lys Val Ser Ser Pro Leu Ile
            580   585   590

Asn Tyr Glu Phe Ser Gln Gln Glu Leu Leu Gln Asp Ile Asp Thr Leu
        595   600   605

Leu Thr Asn Arg Tyr Gln Leu Ser Ser Tyr Thr Arg Pro Ile Ser Arg
    610   615   620

Leu Asp Pro Gly Leu Thr Pro Val Thr Glu Thr Leu Pro Asn Asn Leu
625   630   635   640

Lys Glu Lys Thr Ala Leu Leu Gln Asp Thr Glu Lys Lys Ile Ile Glu
            645   650   655

Thr Ile Arg Arg Ser Lys Phe Leu Gly Ser Leu Leu Asn Val Arg Gly
            660   665   670

Gly Leu Ser Pro Gly Lys Ser Glu Leu Ala Pro Ile Glu Glu Ser Pro
        675   680   685

Ile Val Ser Thr Thr Pro Leu Ile Tyr Asn Asp Arg Met Glu Pro Arg
    690   695   700

Arg Ile Ser Asp Val Glu Val Pro His Phe Thr Arg Lys Ser Lys His
705   710   715   720

Phe Thr Thr Ala Asn Asn Arg Arg Ser Val Leu Ser Leu Tyr Ala Lys
            725   730   735

Asp Ser Ile Lys Asp Leu Asn Glu Phe Leu Ile Lys Glu Asp Pro Asp
            740   745   750

Leu Pro Pro Gln Gly Ser Thr Asp Asn Glu Ser Arg Ser Glu Asp Pro
        755   760   765

Glu Ile Ala Glu Ser Ile Thr Asp Ser Arg Asn Ile Gln Tyr Asp Glu
    770   775   780

Asp Asp Ser Lys Asp Gly Asp Asn Val Asn Asn Asp Asn Ile Leu Ser
785   790   795   800

Asp Phe Pro Gln Gly Val Gly Ile Ser Gln Glu Tyr Asp Met Lys Asp
            805   810   815

Lys Asn Pro Asn Gln Ser Pro Ile Ser Lys Ser Ala Glu Pro Thr Leu
        820   825   830

Val Val Lys Leu Pro Ser Leu Ser Ser Phe Gln Gly Lys Asn Ala Ser
        835   840   845

Gly Leu Gly Leu Tyr Gln Arg Glu Pro Ser Lys Val Thr Leu Pro Ser
    850   855   860

Leu Thr Ser Asn Asn Ser Ser Val Gly Glu Asn Ile Glu Asp Gly Ala
865   870   875   880

Glu Lys Gly Thr Glu Ser Glu Lys Ile Ala Ala Ser Leu Ser Asp Asp
            885   890   895

Asp Leu Lys Glu Asp Asn Asp Lys Lys Asp Asn Asp Thr Val Asn Ala
            900   905   910

Pro Thr Thr Val Lys Lys Pro Pro Asn Ser Val Leu Leu Lys Lys Phe
            915   920   925

Ser Lys Gly Lys Ile Leu Glu Leu Glu Ile His Ala Lys Ile Pro Glu
            930   935   940

Lys Arg Leu Tyr Glu Gly Leu His Lys Leu Leu Glu Gly Trp Lys Gln
945   950   955   960

Tyr Gly Leu Lys Asn Leu Val Phe Asn Ile Thr Asn Met Ile Ile Thr
                965   970   975

Gly Lys Leu Val Asn Asp Ser Ile Leu Phe Leu Arg Ser Thr Leu Phe
                980   985   990

Glu Ile Met Val Leu Pro Asn Gly Asp Gly Arg Ser Leu Ile Lys Phe
            995   1000   1005

Asn Lys Lys Thr Gly Ser Thr Lys Thr Leu Thr Lys Leu Ala Thr Glu
    1010   1015   1020

Ile Gln Ile Ile Leu Gln Lys Glu Gly Val Leu Asp Lys
1025   1030   1035

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<212> PRT
<213> Schizosaccharomyces pombe

<400> 13
Met Ser Thr Ile Ser Glu Val Gly Pro Trp Glu Leu Gly Leu Ser Leu
  1   5   10   15

Gly Ser Gly Gly Pro Asn Ser Ser Arg Leu Ala Lys His Arg Glu Thr
                20   25   30

Gly Gln Leu Ala Val Val Lys Pro Ile Val Gly Trp Ser Glu Leu Thr
            35   40   45

Ser Ser Gln Gln Ala Arg Ile Glu Gly Glu Leu Val Leu Leu Arg Leu
    50   55   60

Ile Glu His Pro Asn Val Leu Gln Leu Ile Asp Val Ile Ser Ala Gln
65   70   75   80

Glu Gln Leu Phe Val Val Val Glu Tyr Met Pro Gly Gly Glu Leu Phe
                85   90   95

Asp Cys Met Leu Arg Lys Gly Ser Phe Thr Glu Gln Asp Thr Ala Lys
            100   105   110

Phe Leu Trp Gln Ile Leu Cys Gly Leu Glu Tyr Cys His Lys Leu His
            115   120   125

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Ile Cys His Arg Asp Leu Lys Pro Glu Asn Leu Tyr Leu Asp Ala His
    130                 135                 140

Gly Ser Ile Lys Ile Gly Glu Phe Gly Met Ala Ser Ile Gln Gln Pro
145                 150                 155                 160

Gly Lys Leu Leu Gln Thr Ser Cys Gly Ser Pro His Tyr Ala Ser Pro
                165                 170                 175

Glu Ile Ile Met Gly Arg Ser Tyr Asp Gly Cys Ala Ser Asp Ile Trp
            180                 185                 190

Ser Cys Gly Ile Ile Phe Phe Ala Leu Leu Thr Gly Lys Leu Pro Phe
            195                 200                 205

Asp Asp Asp Asn Ile Arg Ser Leu Leu Leu Lys Val Cys Gln Gly Gln
    210                 215                 220

Phe Glu Met Pro Ser Asn Ile Ser Pro Gln Ala Gln His Leu Leu Tyr
225                 230                 235                 240

Arg Met Leu Asp Val Asp Ser Ser Thr Arg Ile Thr Met Glu Gln Ile
            245                 250                 255

Arg Glu His Pro Phe Leu Ser Cys Phe Val His Pro Asn Ile Ser Ile
            260                 265                 270

Pro Ile Ile Ser Ala Pro Ile Gln Pro Ile Asp Pro Leu Ile Val Gln
            275                 280                 285

His Leu Ser Leu Val Phe Arg Cys Ser Asp Asp Pro Met Pro Leu Tyr
    290                 295                 300

Glu Lys Leu Ala Ser Gln Ser Pro Leu Val Glu Lys Thr Leu Tyr Thr
305                 310                 315                 320

Leu Leu Ser Arg His Leu His Pro Pro Ser Ser Ala Ala Val Asp Arg
                325                 330                 335

Asn Arg Ala Val Val Asp Asp Leu Leu Gly Thr Ala Ala Ser Asn Gly
            340                 345                 350

Gln Gln Met Asp Glu Glu Glu Ile Glu Gln Ala Ile Asn Ile Pro Thr
        355                 360                 365

Leu Ala Pro Tyr Pro Ile Ser Tyr Ala Ala Glu Ser Val Pro Arg Pro
    370                 375                 380

Ala Thr Ser Ala Ser Pro Phe Leu Thr Pro Val Thr Thr Ser Gly Thr
385                 390                 395                 400

Phe Asn Tyr Ser Phe Asn Ala Thr Asn Pro Gln Ser Ile Leu Gln Arg
            405                 410                 415

Pro Ala Thr Thr Ser Ser Ala Val Pro Gln Leu Pro Lys Ser Val Thr
            420                 425                 430
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Pro Gly Leu Ala Tyr Pro His Asp Ser Ser Met Leu Ser Ser Asn Tyr
     435   440   445

Arg Pro Pro Ser Ala Leu Ser Pro Arg Asn Phe Asn Val Ser Ile Asn
     450   455   460

Asp Pro Glu Val Gln Leu Ser Arg Arg Ala Thr Ser Leu Asp Met Ser
465   470   475   480

Asn Asp Phe Arg Met Asn Glu Asn Asp Pro Ser Ile Val Gly Asn Leu
            485   490   495

Ala Ala Ser Asn Phe Pro Thr Gly Met Gly Pro Pro Arg Lys Arg Val
            500   505   510

Thr Ser Arg Met Ser Glu His Thr Gly Asn Arg Val Val Ser Phe Pro
        515   520   525

Arg Gly Ser Ala Phe Asn Pro Arg Val Thr Arg Phe Asn Val Gly Asn
     530   535   540

Glu Gln Phe Ser Asn Asn Ile Asp Asn Asn Asn Tyr Asn Gln Pro Tyr
545   550   555   560

Ala Asn Ala Thr Met Asn Asn Ser Arg Arg Leu Arg Thr Pro Ser Gly
        565   570   575

Glu Arg Ser Met Arg Ala Asp Leu Ser Gln Ser Pro Ala Ser Tyr Asp
        580   585   590

Ser Leu Asn Val Pro Lys His Arg Arg Arg Gln Ser Leu Phe Ser Pro
        595   600   605

Ser Ser Thr Lys Lys Lys Leu Ser Gly Ser Pro Phe Gln Pro Lys Arg
     610   615   620

Ser Phe Leu Arg Arg Leu Phe Ser Ser Glu Pro Ser Cys Lys Cys Val
625   630   635   640

Tyr Ala Ser Leu Val Ala Ser Glu Leu Glu His Glu Ile Leu Glu Val
        645   650   655

Leu Arg Arg Trp Gln Leu Leu Gly Ile Gly Ile Ala Asp Ile Ile Tyr
        660   665   670

Asp Ser Val Ser Ala Ser Ile Ser Ala Arg Ile Lys Arg Gln Asn Ser
        675   680   685

Leu Asn Leu Lys Pro Val Arg Phe Arg Ile Ser Val Leu Ala Glu Phe
     690   695   700

Phe Gly Ser Gln Ala Val Phe Val Leu Glu Ser Gly Ser Ser Thr Thr
705   710   715   720

Phe Asp His Leu Ala Thr Glu Phe Gln Leu Ile Phe Glu Asp Lys Gly
        725   730   735

```
Phe Leu Asp Asn Leu Glu Leu Ser Tyr Phe Gln Ala Ser Ala Ser Arg
            740                 745                 750

Pro Val Ser Arg Met Ser Val Ser Ser Ser Pro Phe Ala Val Phe Arg
            755                 760                 765

Gln Arg Gln Ser Val Gln Ser
    770                 775
```

```
<210> 14
<211> 593
<212> PRT
<213> Schizosaccharomyces pombe

<400> 14
Met Val Lys Arg His Lys Asn Thr Ile Gly Val Trp Arg Leu Gly Lys
  1               5                  10                      15

Thr Leu Gly Thr Gly Ser Thr Ser Cys Val Arg Leu Ala Lys His Ala
            20                  25                  30

Lys Thr Gly Asp Leu Ala Ala Ile Lys Ile Ile Pro Ile Arg Tyr Ala
            35                  40                  45

Ser Ile Gly Met Glu Ile Leu Met Met Arg Leu Leu Arg His Pro Asn
    50                  55                  60

Ile Leu Arg Leu Tyr Asp Val Trp Thr Asp His Gln His Met Tyr Leu
 65                  70                  75                      80

Ala Leu Glu Tyr Val Pro Asp Gly Glu Leu Phe His Tyr Ile Arg Lys
                85                  90                  95

His Gly Pro Leu Ser Glu Arg Glu Ala Ala His Tyr Leu Ser Gln Ile
            100                 105                 110

Leu Asp Ala Val Ala His Cys His Arg Phe Arg Phe Arg His Arg Asp
            115                 120                 125

Leu Lys Leu Glu Asn Ile Leu Ile Lys Val Asn Glu Gln Gln Ile Lys
    130                 135                 140

Ile Ala Asp Phe Gly Met Ala Thr Val Glu Pro Asn Asp Ser Cys Leu
145                 150                 155                     160

Glu Asn Tyr Cys Gly Ser Leu His Tyr Leu Ala Pro Glu Ile Val Ser
            165                 170                 175

His Lys Pro Tyr Arg Gly Ala Pro Ala Asp Val Trp Ser Cys Gly Val
            180                 185                 190

Ile Leu Tyr Ser Leu Leu Ser Asn Lys Leu Pro Phe Gly Gly Gln Asn
    195                 200                 205

Thr Asp Val Ile Tyr Asn Lys Ile Arg His Gly Ala Tyr Asp Leu Pro
    210                 215                 220
```

Ser Ser Ile Ser Ser Ala Ala Gln Asp Leu Leu His Arg Met Leu Asp
225   230   235   240

Val Asn Pro Ser Thr Arg Ile Thr Ile Pro Glu Val Phe Ser His Pro
            245   250   255

Phe Leu Met Gly Cys Thr Ser Leu Ser Ser Met Asp Ser Thr Thr Pro
            260   265   270

Pro Thr Pro Ser Leu Ser Ile Asp Glu Ile Asp Pro Leu Val Val Asp
        275   280   285

Cys Met Cys Val Leu Trp Lys Lys Ser Ser Ser Lys Lys Val Val Arg
    290   295   300

Arg Leu Gln Gln Arg Asp Asp Asn Asp Glu Lys Tyr Val Tyr Lys Val
305   310   315   320

Leu Ser Glu Ile Leu Arg Asp Asp Met Leu Lys Lys Gln Arg Phe Asp
            325   330   335

Glu Asn Lys Tyr Leu Ser Leu Tyr Asp Leu Ile His Asp Asn Asn Leu
        340   345   350

Phe Thr Lys Ala Ser Ile Ser Thr Thr Ser Leu Val Lys Ser Asn Val
    355   360   365

Ser Thr Asn Ser Arg Lys Ser Ser Asn Phe Glu Asp Glu Leu Ala Arg
    370   375   380

Arg Val Ser Ser Pro Leu Ser Ala Leu Asn Gln Met Ser Gln Ser Pro
385   390   395   400

Ile Pro Ile Arg Val Ser Ser Asp Lys Asp Tyr Asp Ser Tyr Ala Cys
            405   410   415

His Glu Val Val Ser Asn Pro Ser Thr Leu Asp Asp Asp Tyr Asn Tyr
            420   425   430

Met Phe Val Cys Pro Pro Glu Glu Tyr Thr Tyr Ser Thr Asp Asn Val
    435   440   445

Arg Thr Asp Ser Leu Asp Leu Gln Ser Leu Pro Thr Pro Thr Leu Glu
    450   455   460

Gln Leu Glu Ser Val Pro Phe Asn Arg Tyr Gly Tyr Val Arg Ile Phe
465   470   475   480

Pro Ser Thr Thr Leu Ser Ser Thr Ala Ser Gly Tyr Tyr Thr Pro Asp
            485   490   495

Ser Leu Ser Thr Pro Glu Pro Ser Ile Asp Gly Leu Thr Asn Leu Asp
        500   505   510

Asp Val Gln Val Gly Gly Phe Val Gln Gly Ser Gly Asn Gln Asn Arg
        515   520   525

```
Arg Pro Ile Ser Phe Pro Val Ile Ser Asn Met Gln Pro Asn Ile Thr
    530             535             540

Asn Val Arg Ser Ala Ser Ala Pro Leu Cys Ser Ser Pro Val Pro Ser
545             550             555                 560

Arg Arg Tyr Ser Gln Tyr Ala Thr Asn Ala Arg Tyr Thr Pro Arg Lys
            565             570             575

Val Ser Ser Gly Ser Val Leu Arg Lys Ile Ser Ser Phe Phe Arg Lys
            580             585             590

Asp
```

```
<210> 15
<211> 1462
<212> PRT
<213> Candida albicans

<400> 15
Met Ser Thr Val Val Asn Arg Arg Ser Ser His Gln Phe Asp Ser Pro
  1               5               10                  15

Ser Asn His Leu Asp His Ser Ser Ser Met Asn Val Asp Lys Val Val
            20              25                  30

Gln Ser Val Thr Asn Ala Thr Lys Arg Leu Ser Gln Ile Ser Thr Asn
        35              40                  45

Thr Asn Asn Ser Asn Lys Lys Arg Lys Thr Gln Asn Lys Ile Gly Pro
    50              55              60

Trp Lys Leu Gly Arg Thr Leu Gly Arg Gly Ser Thr Gly Arg Val Arg
 65             70              75                  80

Leu Ala Lys Asn Thr Thr Thr Gly Gln Leu Ala Ala Val Lys Ile Val
            85              90                  95

Pro Lys Ser Asn Phe Lys Lys Leu Glu Asn Pro Lys Tyr Lys Arg Ser
            100             105             110

Lys Glu Asp Ala Thr Arg Leu Pro Tyr Gly Ile Glu Arg Glu Ile Ile
        115             120             125

Ile Met Lys Leu Ile Ser His Pro Asn Ile Met Gly Leu Tyr Asp Val
    130             135             140

Trp Glu Asn Lys Asn Asp Leu Tyr Leu Ile Leu Glu Tyr Ile Glu Gly
145             150             155             160

Gly Glu Leu Phe Asp Tyr Leu Ile Lys Arg Gly Lys Leu Gln Glu Tyr
            165             170             175

Glu Ala Ile Asn Tyr Phe Lys Gln Ile Ile Asn Gly Ile Asn Tyr Leu
            180             185             190
```

His Gln Phe Asn Ile Cys His Arg Asp Leu Lys Pro Glu Asn Leu Leu
    195   200   205

Leu Asp Phe Asn Lys Asn Ile Lys Ile Ala Asp Phe Gly Met Ala Ala
    210   215   220

Leu Glu Val Lys Glu Lys Leu Leu Glu Thr Ser Cys Gly Ser Pro His
225   230   235   240

Tyr Ala Ser Pro Glu Ile Val Ala Gly Lys Asn Tyr His Gly Ala Pro
          245   250   255

Ser Asp Ile Trp Ser Cys Gly Ile Ile Leu Phe Ala Leu Leu Thr Gly
        260   265   270

His Leu Pro Phe Asp Asp Glu Asn Ile Arg Lys Leu Leu Leu Lys Val
      275   280   285

Gln Ser Gly Lys Phe Asn Met Pro Pro Glu Leu Ser Phe Glu Ala Lys
    290   295   300

Asp Leu Ile Thr Lys Met Leu Lys Val Asn Pro Arg Glu Arg Ile Thr
305   310   315   320

Ile Asp Ala Ile Leu Thr His Pro Leu Leu Ala Lys Tyr Pro Glu Pro
        325   330   335

Thr Val Ser Tyr Ser Ser Thr Thr Thr Leu Asp Ile Asn Ser Ile Asn
      340   345   350

Ile Lys Gln Ile Glu Ser Val Asp Lys Ile Asp Lys Glu Ile Leu Lys
      355   360   365

Asn Leu Ser Val Leu Phe His Asn Cys Asp Glu Lys Thr Ile Ile Ser
    370   375   380

Arg Leu Leu Ser Pro Asn Arg Cys Pro Glu Lys Met Phe Tyr Tyr Leu
385   390   395   400

Leu Met Lys Tyr Arg Asn Glu His Leu Ser Asn Ser Asn Ser Phe Asn
        405   410   415

Ser Ser Asn Asp Val Asp Ser Ala Arg Ser Leu Pro Arg Ser Thr Ser
      420   425   430

Tyr Val Lys Thr Thr Val Thr Asp His Ala Thr Gly Glu Lys His Thr
    435   440   445

Thr Val Lys Lys Ile Gln Gln Ser Ser Ser Ile Tyr Ser Asn Arg Ser
    450   455   460

Leu Leu Lys Lys Ser Thr Ser Ala Lys Gly Asn Val Leu Ser Asn Ile
465   470   475   480

Thr Asn Arg Pro Asn Thr Pro Lys Gln Phe Ser Ala Ser Ser Ser Phe
      485   490   495

Asn Lys Lys Lys Ala Leu His Ser Lys Thr Gln Ile Tyr Ala Ser Arg
        500   505   510

Ser Arg Asn Ala Ser Ser Arg Ser Leu Lys Ser Asn Ser Ser Thr Gly
        515   520   525

Arg Asn Gly Asn Asn Ala Ser Val Thr Ser Val Asn Lys Ile Pro Glu
        530   535   540

Ile Thr Gly Ala Thr Val Leu Gln Pro Ile Pro Ser Met Ala Met Asn
545   550   555   560

Arg Gly Asp Glu Gln Gln Asn Lys Thr Lys Lys Asn Leu Thr Gly Thr
                565   570   575

Phe Gly Asn Lys Ser Leu Leu Asn Phe Gln Leu Ile Cys Glu Glu Val
                580   585   590

Phe Glu Asn Asp Lys Glu Asn Ser Lys Pro Val Ser Lys Thr Pro Val
        595   600   605

Ser Gln Leu Pro Pro Pro Pro Pro Pro Ile Glu Thr Pro Thr Ser
        610   615   620

Arg Thr Asn Ser Val Lys Arg Gly Lys Thr Trp Ser Leu Ala Arg Arg
625   630   635   640

Glu Arg Glu Leu Ala Glu Gln Val Arg Gln Arg Asn Glu Ala Arg Glu
                645   650   655

Asn Lys Leu Lys Ala Glu Glu Leu Ala Arg Lys Glu Leu Glu Gln Glu
                660   665   670

Lys Lys Arg Ile Ala Glu Glu Lys Lys Arg Leu Glu Gln Gln Glu Arg
        675   680   685

Glu Leu Asp Glu Lys Gln Lys Leu Gln Glu Lys Gln Lys Ala Ala Leu
        690   695   700

Glu Lys Leu Gln Lys His Gln Ser Ala His Asp Phe Glu Gly Leu Phe
705   710   715   720

Ala Ser Asn Arg Arg Ser Val Thr Asp Met Ala Pro Ser Ser Gly Met
                725   730   735

Ser Ser Leu Asp Pro Arg Ala His Met Val Ser Arg Ala Asn Thr Ile
        740   745   750

Gly Ser Pro Asn Leu Ser Ser Ser Ser Val Asn Ile Asp Glu Asn Ala
        755   760   765

Ser Lys Val Leu His Lys Phe Gly Ile Asp Val Ala Pro Ser Pro Lys
        770   775   780

Arg Phe Ser Arg Ala Ser Lys Thr Ser Thr Ser Lys Asn Leu Ser Ser
785   790   795   800

Phe Leu Ala Pro Thr Val Ser Arg Asn Leu Ser Ser Gln Leu Lys Thr
                805   810   815

Ser Ser Ser Lys Asn Leu Ala Gly Tyr Leu His Gly Thr Thr Asp Thr
                820   825   830

Asn Gly Ser Ala Ile Ala Ala Lys Lys Lys Asp Asp Ser Thr Asn Glu
            835   840   845

Ala Leu Thr Ile Glu Glu Phe Asn Ala Lys Glu Arg Thr Ser Met Ser
    850   855   860

Pro Ser Ile Ser Lys Ala Ser Val Asn Lys Arg Asn Ser Asn Gln Ser
865   870   875   880

Ser Tyr Tyr Arg Ser Met Phe Ser Asp Asn Gly Asn Asp Asp Asn Val
            885   890   895

Thr Lys Val Arg Thr Gly Glu Ser His Leu Ser Val Gln Glu Glu Glu
            900   905   910

Glu Met Asp Met Glu Asn Ala Ile Asp Glu Asp Ile Ser Leu Ile Pro
    915   920   925

Asn Pro Arg Phe Ser Arg Phe Ser Phe Gly Gly Leu Leu Gly Ser Asn
    930   935   940

Thr Val Ala Asn Glu Glu Gly Asp Trp Thr Ile Met Asn Ser Thr Leu
945   950   955   960

Asn His Ser Asn Thr Val Val Arg Gly Thr His Asn Lys Ser Ser Thr
            965   970   975

Met Leu Gly Leu Gly Ile Lys Met Arg Asp Thr Thr Thr Ile Lys Glu
            980   '   985   990

Asp Glu Glu Phe Glu Asp Glu Lys Pro Phe Ile Ser Val Pro Ser Ser
    995   1000   1005

Glu Asp Asp Glu Gly Asn Thr His Lys Asn Lys Arg Gly Gly Leu Arg
    1010   1015   1020

Asp Ser Gly Asn Tyr Asp Phe Asp Glu Glu His Ser Val Ala Ser Thr
1025   1030   1035   1040

Ala Asn Thr Glu Tyr Ser Asp Val Ala Ser Gln Gly Gln Gln Met Pro
            1045   1050   1055

Gly Ser His Thr Ile His Gln Leu Glu Thr Glu Leu Ser Asn Phe Asp
            1060   1065   1070

Leu Leu Ser Tyr Arg Val Ala Asp Ile Gly Lys Val Asn Lys His Lys
    1075   1080   1085

Pro Ser Ile Val Asp Ser Lys Glu Thr Leu Leu Lys Asn His Ser Ser
    1090   1095   1100

Asp Glu Ala Thr Ile Glu Val Lys Glu Asp Asn Asn Glu His Asp Phe
1105   1110   1115   1120

Asn Asp Lys Ile Lys Gln His Tyr Asp Asp Asn Gly Asp Ser Glu Glu
            1125   1130   1135

Asp Asp Glu Asp Glu Asp Glu Glu Glu Asp Asp Asp Asp Asp Asp
        1140   1145   1150

Asp Ala Arg Ser Ser Phe Glu Ala Arg Pro His Ser His Asn Tyr Ser
        1155   1160   1165

Leu Ala Glu Ile Thr Ser Glu Ser Pro Val Gly Gly Gly Tyr Glu Ser
    1170   1175   1180

Pro Ser Ile Ala Asn Asp Phe Lys Lys Ser Arg His Ser Thr Gly Ile
1185   1190   1195   1200

Phe Ser Thr Thr Gln Phe Pro Arg Ser Pro Tyr Val Val Asn Asn Asn
            1205   1210   1215

Gly Asp Ser Asn Lys Asp Glu Asn Ser Gln Gln Gln Thr Lys His Met
            1220   1225   1230

Leu Asn Asp Gly His Lys Gly Leu Ile Thr Ser Pro Val Gln Asp Thr
        1235   1240   1245

Phe Gly Ser Lys Lys Pro Val Glu Ser Asn Ser Leu Phe Arg Arg Leu
    1250   1255   1260

Ser Leu Asn Pro Asn Arg Ala Ala Pro Lys Ala Pro Ala Pro Pro Pro
1265   1270   1275   1280

Pro Ser Ala Pro Ile Ser Ser Ala Ala Lys Ala Asn Ile Ser Gln Pro
            1285   1290   1295

Leu Ser Ser Pro Thr Lys Gly His Asn Arg Phe Ser Arg Ile Ser Ile
        1300   1305   1310

Gly Ser Lys Asn Met Leu Gln Lys Glu Asp Lys Ser Thr Lys Ser Asn
        1315   1320   1325

Trp Phe Lys Lys Phe Phe His Ser Leu Thr Thr Pro Ser Ala Lys Asp
    1330   1335   1340

Gln Ser Gly Asn Ser Ser Ser Lys Val Ala Ser Lys Asp Ile Lys Ile
1345   1350   1355   1360

Ile Asp Thr Ser Leu Thr Ala Ala Gln Leu Ile Arg Val Ile Lys Tyr
            1365   1370   1375

Gln Leu Glu Leu Lys Lys Ile Glu Gly Ser Ile Ser Lys Val Asp Ile
        1380   1385   1390

Asp Glu Glu Phe Gly Leu Ile Ser Gly Val Ile Pro Ser Lys Phe Ala
        1395   1400   1405

```
Asn Gly Arg Lys Leu Lys Phe Lys Ile Glu Val Ile Asp Leu Ile Asn
    1410            1415            1420

Ser Ser Ser Leu His Val Ile Lys Met Lys Gly Asn Asp Lys Gly Phe
1425            1430            1435            1440

Gln Ser Leu Val Asn Ile Val Thr Phe Ile Ile Lys Lys Glu Glu Gln
            1445            1450            1455

Asp Lys Ile Ser Arg Arg
            1460
```

```
<210> 16
<211> 1349
<212> PRT
<213> Candida albicans

<400> 16
Met Pro His Ser Arg Gln Pro Ser Ile Ser Ser Ser Ile Met Ser Gln
  1           5               10              15

Ser Asn His Asn His Pro Gln Lys Ile Gly Pro Trp Lys Leu Gly Lys
            20              25              30

Thr Leu Gly Arg Gly Ala Thr Gly Arg Val Leu Leu Ala Thr His Gln
        35              40                  45

Thr Thr Gly Gln Lys Ala Ala Val Lys Val Val Ser Lys Ser Glu Leu
    50              55                  60

Gln Asp Glu Glu Thr Glu Lys Asn Gly Asp Gly Leu Pro Tyr Gly Ile
 65              70                  75                  80

Glu Arg Glu Ile Ile Ile Met Lys Leu Leu Thr His Pro Asn Val Leu
                85              90                  95

Arg Leu Tyr Asp Val Trp Glu Thr Ser Lys Ala Leu Tyr Leu Val Leu
            100             105             110

Glu Tyr Val Glu Gly Gly Glu Leu Phe Asp Leu Leu Val Glu Arg Gly
        115             120             125

Pro Leu Pro Glu Val Glu Ala Ile Lys Tyr Phe Arg Gln Ile Ile Leu
    130             135             140

Gly Thr Ala Tyr Cys His Ala Leu Gly Ile Cys His Arg Asp Leu Lys
145             150             155             160

Pro Glu Asn Leu Leu Leu Asp Ser Gln Leu Asn Val Lys Leu Ala Asp
            165             170             175

Phe Gly Met Ala Ala Leu Glu Ser Asn Gly Lys Leu Leu Glu Thr Ser
            180             185             190

Cys Gly Ser Pro His Tyr Ala Ala Pro Glu Ile Val Ser Gly Leu Lys
        195             200             205
```

Tyr His Gly Ala Ala Ser Asp Val Trp Ser Cys Gly Val Ile Leu Phe
    210   215   220

Ala Leu Leu Thr Gly Arg Leu Pro Phe Asp Asp Glu Asn Ile Arg Asn
225   230   235   240

Leu Leu Leu Lys Val Gln Ala Gly Asn Phe Glu Met Pro Val Asp Glu
            245   250   255

Val Ser Arg Glu Ala Arg Asp Leu Ile Ala Arg Met Leu Glu Val Asp
            260   265   270

Pro Met Arg Arg Ile Ser Thr Glu Lys Ile Leu Arg His Pro Leu Leu
        275   280   285

Thr Lys Tyr Pro Met Ser Asn Glu Asp Leu Ile Ser Glu Lys Ser Leu
    290   295   300

Pro His Pro Gln Thr Gly Tyr Lys Ser Leu Gly Ser Val Arg Asn Ile
305   310   315   320

Asp Lys Gln Ile Leu Ser Asn Leu Thr Ile Leu Trp Asn Asp Arg Pro
            325   330   335

Glu Glu Glu Ile Val Asp Cys Leu Leu Lys Asp Gly Ser Asn Pro Glu
            340   345   350

Lys Thr Phe Tyr Ala Leu Leu Met Arg Tyr Lys His Asn Gln Glu Asp
        355   360   365

Asn Thr Asn Asn Asn Ser Pro Lys Lys Ser Thr Ser Phe Asn Asn Lys
    370   375   380

Val Val Arg Ser Gly Ser Lys Tyr Ser Leu Asn Gly Thr Pro Arg Arg
385   390   395   400

Lys Arg Ala Ser His Ile Ser Val Ser Arg Pro Thr Ser Phe Gln Tyr
            405   410   415

Lys Ser Asn Pro Gly Ala Gly Ala Thr Ala Asn Arg Asn Ser Val Ala
            420   425   430

Arg His Ser Val Ala Ser Ser Ala Asn Asn Ser Pro Arg Lys Ser Pro
        435   440   445

Tyr Lys Ser Pro Tyr Arg Ser Pro Tyr Arg Ser Pro Tyr Lys Ser Pro
    450   455   460

Ser Lys Arg Tyr Ser Tyr Asn Gln Ser Pro Thr Lys Ser Pro Tyr Gly
465   470   475   480

Arg Arg Ser Asn Ser Gln Arg Gln Phe Glu Asn Glu Pro Leu Lys Ala
            485   490   495

Lys Pro Arg Asn Ile Tyr Asn Glu Ile Val Asp Ala Gln Ser Asn Phe
            500   505   510

Ser Leu Pro Pro Ser Leu Pro Pro Ser Leu Pro Ser Lys Asp Ser Arg
     515   520   525

Tyr Met Ile Asp Glu Pro Asn Gln Pro Gln Leu Gln Gln Pro Ala Leu
     530   535   540

Ser Gln Val Pro Glu Asn Pro Ile Val Asp Glu Ser Pro Asp Leu Met
545   550   555   560

Gln Ser Ala Lys Ile Ser Ser Gly Lys Arg Asn Ser Ile Ile Gly Lys
          565   570   575

Asn Asn Asn Asn Ser Asn Ser Asn Lys Arg Met Ser Lys Arg Lys Ser
          580   585   590

Ile Arg Ala Ser Met Thr Thr Gly Leu Lys Arg Asn Ser Ile Thr Met
      595   600   605

Lys Leu Leu Ser Thr Tyr Ala Lys Leu Ser Gly Asp Asp Asp Trp Glu
     610   615   620

Tyr Met Asp Lys Gln Thr Lys Arg Thr Ser Ala Thr Phe Ala Ala Leu
625   630   635   640

Cys Asp Lys Ile Phe Asn Gln Glu Asp Tyr Asp Glu Glu Asp Glu Gln
          645   650   655

Leu Val Asp Pro Glu Glu Lys Glu Ala Lys Glu Tyr Glu Arg Leu Met
          660   665   670

Glu Leu Glu Arg Lys Lys His Glu Ala Glu Leu Lys Ala Arg Arg Glu
      675   680   685

Leu Glu Lys Lys Lys Arg Arg Gln Lys Arg Arg Ser Ile Leu Ser Ser
     690   695   700

Lys Lys Leu Ser Ile Ile Val Lys Asn Asp Ala Asp Pro Asn Asn Ser
705   710   715   720

Glu Gln Glu Leu Val Asp Glu Gly Ile Lys Gln Pro Lys Arg Gln Ser
          725   730   735

Lys Asn Leu Thr Ala Leu Arg Ala Leu Ser Glu Gly Asn His Ala Ser
          740   745   750

Glu Glu Leu Thr Leu Glu Asp Val Glu Asn Leu Lys Arg Arg Ser Ala
      755   760   765

Ser Gln Pro Val Pro Lys Arg Arg Gln Thr Pro Val Leu Thr Arg Arg
     770   775   780

Pro Val Ser Arg Leu Asp Pro Leu Trp Gln Ala His Glu Asn Glu Gln
785   790   795   800

Leu Asp Arg Ala Lys Asp Ala Leu Glu Gln Glu Trp Arg Asp Ser Gln
          805   810   815

Lys Arg Ser Ser Thr Val Ser Arg Lys Lys Val Asn Arg Glu Ser Met
   820   825   830

Ile Ser Val Met Asp Asp Ile Val Glu Glu Asp Gln Gly Arg Val Asn
   835   840   845

Arg Arg Ser Thr Arg Asn Thr Tyr Tyr Glu Arg Glu Arg Asp Tyr Glu
  850   855   860

Leu Pro Glu Pro Thr Val Glu Asp Ser Asn Leu Thr Asp Asp Tyr Met
865   870   875   880

Thr Glu Ile Arg Lys Ser Arg Leu Leu Asn Ser Gln Leu Asn Val Arg
   885   890   895

Asp Pro Leu Asn Glu Lys Arg Lys Ser Glu Pro Lys Thr Leu Ile Ser
   900   905   910

Asn Val Gln Ile Pro Ser Val Thr Arg Lys Ser Arg Asn Phe Thr Thr
  915   920   925

Ser Asn Lys Arg Leu Ser Val Leu Ser Met Tyr Ser Thr Lys Glu Ser
 930   935   940

Tyr Arg Asp Leu Asn Ser Ile Ile Asn Ser Pro Asp Glu Asn Pro Glu
945   950   955   960

Gln His Gln Asn Met Asn Lys Pro Ala Leu Arg Thr Ser Ile Ala Asp
   965   970   975

Arg Leu Asp Lys Ala Gly Leu Ala Glu Pro Glu Tyr Glu Thr Glu Thr
   980   985   990

Asp Gly Glu Asp Lys Val Ser Val Ile Asp Leu Asp Asp His Leu Ala
  995   1000   1005

Asp Arg Arg Thr Ser Tyr Tyr Asp Gly Ser Gly Lys Arg Ala Ser Arg
  1010   1015   1020

Ala Ser Thr Thr Lys Arg Tyr Asn Val His Ser Ser Ser Gly Gln Arg
1025   1030   1035   1040

Pro Lys Ser Lys Val Pro Asp Leu Pro Lys Asn Asp Tyr Asp Asp Thr
   1045   1050   1055

Phe Val Ser Asn Ser Asp Glu Val His Lys Arg Gln Tyr Lys Ser Met
   1060   1065   1070

Val Ser Asp Glu Ser Ser Ala Ser Asp Asp Val Phe Asp Lys Ile Lys
  1075   1080   1085

Leu Pro Asp Gly Lys Ser Thr Lys Ser Ser Ile Asp Glu Leu Ala Asn
  1090   1095   1100

Gly Thr Ser Thr Ser Gly His Arg Lys Pro Lys Ile Arg His Ser Gln
1105   1110   1115   1120

Pro Gly Pro Glu Met Leu Ile Pro His Leu Asn Gly Gly Ile Glu Ser
        1125   1130   1135

Ser Gln Pro Met Ser Lys Val Arg Gly Asn Asn Ser Ser Gly His Asp
        1140   1145   1150

Asp Ser Val Pro Pro Pro Pro Ala His Lys Val Asn Lys Lys Pro
     1155   1160   1165

Leu Asp Asp Lys Thr Asn Phe Pro Pro Pro Glu Val Asp Pro Lys Arg
   1170   1175   1180

Lys Gly Ser Phe Phe Arg Lys Leu Ser Trp Gly Ser Lys Lys Thr Ile
1185   1190   1195   1200

Glu Asn Asn Thr Asn Ala Ala Thr Asn Thr Thr Thr Gln Gln Gln Leu
        1205   1210   1215

Pro Ser Pro Ala Glu Ser Lys Glu Glu Lys Pro Lys Ser Ser Phe Phe
        1220   1225   1230

Arg Trp Phe Ser Ser Ser Asn Thr Pro Ser Ala Ala Glu Ile Arg Lys
      1235   1240   1245

Phe Asn Thr Ile Leu Pro Lys His Glu Met Ser Thr Ala Leu Phe Ala
   1250   1255   1260

Leu Leu Asn Ser Trp Ser Asn Phe Gly Leu Lys Asp Leu Arg Asn Asp
1265   1270   1275   1280

Gln Val Gly Tyr Tyr Ile Thr Gly Ala Ile Ser Lys His Asn Ser Phe
        1285   1290   1295

Asn Leu Lys Ser Cys Lys Phe Arg Ile Lys Ile Asn Gln Arg Asp Phe
        1300   1305   1310

Asn Gln Lys Ser Glu Ile Val Cys Val Arg Val Lys Gly Ser Lys Val
     1315   1320   1325

Thr Thr Asp Thr Leu Phe Ser Glu Ile Glu Lys Val Leu Leu Lys Glu
   1330   1335   1340

Gly Val Leu Asp Lys
1345

<210> 17
<211> 1029
<212> PRT
<213> Saccharomyces cerevisiae

<400> 17
Met Thr Leu Asp Tyr Glu Ile Tyr Lys Glu Gly Gly Ile Leu Asn Asn
 1   5   10   15

Arg Tyr Gln Lys Ile Glu Asp Ile Ser Glu Gly Ser Tyr Gly Tyr Val
       20   25   30

Ser Leu Ala Lys Asp Val Arg Glu Lys Arg Leu Val Ala Val Lys Tyr
     35   40   45

Ile Phe Lys Leu Glu Asp Asp Gly Gln Tyr Asp Gly Pro Gln Asp Asp
     50   55   60

Glu Asn Asp Cys Asp Ser Ser Asp Cys Asp Asp Asp Glu Asp Thr Lys
65   70   75   80

Val Asp Thr Asp Arg His Glu Asn Glu Asn Gly Asn Ala Ser Ser Asn
           85   90   95

Asn Gly Ser Ser Arg Glu Lys Lys His Asn Leu Tyr Lys His Lys Lys
          100   105   110

Ser Leu Ile Ser Ser Lys Val Lys Ser Arg Leu Ser Asn Asn Ile Cys
       115   120   125

Leu Glu Ala Met Tyr Glu Val Asp Ile Gln Thr Lys Ile Gly Arg His
     130   135   140

Gln Asn Ile Ala Ala Leu Leu Asp Phe Phe Asp Ser Tyr Ile Ile Met
145   150   155   160

Glu Tyr Cys Ser Gly Gly Asp Leu Tyr Glu Ala Ile Lys Ala Asp Ala
          165   170   175

Val Pro Lys Lys Thr Lys Ser Ile Thr His Ile Ile Thr Gln Ile Met
          180   185   190

Asp Ala Ile Glu Tyr Val His Asn Lys Gly Ile Tyr His Arg Asp Ile
          195   200   205

Lys Pro Glu Asn Ile Leu Ile Ser Gly Ile Asp Trp Thr Ile Lys Leu
     210   215   220

Thr Asp Trp Gly Leu Ala Thr Thr Asp Lys Thr Ser Met Asp Arg Asn
225   230   235   240

Val Gly Ser Glu Arg Tyr Met Ser Pro Glu Leu Phe Asp Ser Asn Leu
          245   250   255

Asp Ile Lys Glu Arg Lys Glu Pro Tyr Asp Cys Ala Lys Val Asp Leu
          260   265   270

Trp Ala Met Gly Ile Val Phe Leu Asn Ile Val Phe His Lys Asn Pro
       275   280   285

Phe Ser Ile Ala Asn Gln Ser Asp Lys Ser Phe Cys Tyr Phe Ala Ala
       290   295   300

Asn Arg Glu Ala Leu Phe Asp Val Phe Ser Thr Met Ala Tyr Asp Phe
305   310   315   320

Phe Gln Val Leu Arg Tyr Ser Leu Thr Ile Asp Pro Ala Asn Arg Asp
          325   330   335

Leu Lys Met Met Arg Thr Glu Leu Gln Asn Leu Ser Glu Tyr Thr Leu
        340   345   350

Asp Asp Glu Tyr Tyr Asn Asn Leu Asp Glu Gly Tyr Glu Glu Thr Met
        355   360   365

Ile Asp Gly Leu Pro Pro Gln Pro Val Pro Pro Ser Ser Ala Pro Val
        370   375   380

Ser Leu Pro Thr Pro Ile Ser Ser Ser Asn Lys Gln His Met Pro Glu
385   390   395   400

Phe Lys Lys Asp Phe Asn Phe Asn Asn Val Asn Glu Arg Lys Arg Ser
            405   410   415

Asp Val Ser Gln Asn Gln Asn Val Ala Ser Gly Phe Phe Lys Lys Pro
            420   425   430

Ser Thr Gln Gln Gln Lys Phe Phe Asn Gln Gly Tyr Asn Thr Thr Leu
        435   440   445

Ser Thr His Glu Arg Ala Lys Ser Ala Pro Lys Phe Lys Phe Lys Lys
        450   455   460

Arg Asn Lys Tyr Gly Arg Thr Asp Asn Gln Phe Ser Lys Pro Val Asn
465   470   475   480

Ile Glu Asp Arg Lys Lys Ser Lys Ile Leu Lys Lys Ser Arg Lys Pro
            485   490   495

Leu Gly Ile Pro Thr Pro Asn Thr His Met Asn Asn Phe Phe His Asp
            500   505   510

Tyr Lys Ala Arg Asp Glu Phe Asn Thr Arg Asp Phe Phe Thr Pro Pro
        515   520   525

Ser Val Gln His Arg Tyr Met Glu Gly Phe Ser Asn Asn Asn Asn Lys
        530   535   540

Gln Tyr Arg Gln Asn Arg Asn Tyr Asn Asn Asn Asn Asn Asn Ser Asn
545   550   555   560

Asn Asn His Gly Ser Asn Tyr Asn Asn Phe Asn Asn Gly Asn Ser Tyr
            565   570   575

Ile Lys Gly Trp Asn Lys Asn Phe Asn Lys Tyr Arg Arg Pro Ser Ser
            580   585   590

Ser Ser Tyr Thr Gly Lys Ser Pro Leu Ser Arg Tyr Asn Met Ser Tyr
        595   600   605

Asn His Asn Asn Asn Ser Ser Ile Asn Gly Tyr Ala Arg Arg Gly Ser
        610   615   620

Thr Thr Thr Val Gln His Ser Pro Gly Ala Tyr Ile Pro Pro Asn Ala
625   630   635   640

Arg Asn His His Val Ser Pro Thr Asn Gln Phe Leu Arg Val Pro Gln
            645   650   655

Ser Thr Ala Pro Asp Ile Ser Thr Val Leu Gly Gly Lys Pro Ser Tyr
            660   665   670

Gln Glu His Tyr Thr Gln Asp Ser Met Asp Ser Glu Gly Asp His Asp
        675   680   685

Ser Asp Asp Val Leu Phe Thr Leu Glu Glu Gly Asp His Asp Phe Val
    690   695   700

Asn Gly Met Asp Asn Leu Ser Ile Asn Asp His Leu Pro His Thr Thr
705   710   715   720

Val Gly Ser His Asn Glu Val Phe Val His Ala Ser Thr Asn His Asn
        725   730   735

Asn Asn Gly Asn Asn Asn His Ile Asp Thr Asn Ser Thr Thr Asn Gln
        740   745   750

Tyr His Arg Gln Tyr Ile Pro Pro Pro Leu Thr Thr Ser Leu His Ile
        755   760   765

Asn Asn Asn Asn Asn Glu Ser Asn Glu Leu Pro Asp Leu Leu Lys Ser
        770   775   780

Pro Ala Ser Ser Glu Ala His Leu Asn Leu Ser Ser Gly Pro Ile Asp
785   790   795   800

Pro Ile Leu Thr Gly Asn Ile Gly Asn Arg Tyr Ser His Ser Ser Asp
        805   810   815

Ser Lys Glu Leu Glu Gln Glu Arg Arg Leu Ser Met Glu Gln Lys Phe
        820   825   830

Lys Asn Gly Val Tyr Val Pro Pro His His Arg Lys Ser Phe Asn Leu
        835   840   845

Gly Thr Gln Val Pro Pro Met Asn Met Lys Thr Ser Asn Glu Ala Thr
    850   855   860

Leu Ser Val Ser His Asn Ser Val Asn Phe Gly Gly Ser Tyr Asn Ser
865   870   875   880

Arg Arg Ser Ser Ala Asn Glu Ser Asn Pro Leu His Met Asn Lys Ala
        885   890   895

Leu Glu Lys Leu Ser Ser Ser Pro Gly Ala Lys Ser Ser Phe Val Gly
        900   905   910

Phe Pro Lys Pro Leu Leu Pro Arg Asn His Ser Ser Thr Thr Ile Ala
        915   920   925

Leu Gln Asn Glu Asp Val Phe Ala Asp Ser Asn Asn Asp Ala Ile Ile
        930   935   940

```
Phe Glu Asp Glu Glu Tyr Glu Gly Glu Ser Asp Lys Met Ala His Gly
945             950             955             960

Lys Met Glu Gly Gly Asp Asn Glu Ser Ser Thr Ser Pro Asp Glu
            965             970             975

Arg Gln Ile Phe Gly Pro Tyr Glu Ile Tyr Ala Gln Thr Phe Ala Gly
            980             985             990

Ser Thr His Asp Lys Lys Leu Gly Ala Gly Arg Lys Thr Ser Ile Gln
        995             1000            1005

Asp Glu Met Val Gly Ser Leu Glu Gln Tyr Lys Asn Asn Trp Leu Ile
    1010            1015            1020

Leu Gln Gln Gln Asp
1025
```

<210> 18
<211> 502
<212> PRT
<213> Saccharomyces cerevisiae

<400> 18

```
Met Leu Ser Asp Cys Leu Leu Asn Asn Phe Arg Ile Thr Ala Gln Ile
 1               5               10              15

Gly Ser Gly Ala Tyr Gly Leu Val Phe His Val Val Asp Ile Leu Thr
            20              25              30

Ser Arg Glu Tyr Ala Val Lys Thr Val Phe Lys Ser Ser Ser Met Asp
        35              40              45

Glu Phe Tyr Asn Lys Asn Gly Leu Asn Asn Asn Ser Gln Val Ala Arg
    50              55              60

Thr Thr Leu Leu Gln Thr Gln Leu Tyr His Phe Phe Lys Ser Phe Gln
65              70              75              80

Lys Lys Leu Phe Leu Pro Ser Val Asp Leu Asp Ser Ile Leu Gln Leu
            85              90              95

Thr Glu Asn Glu Leu Asn Arg Leu Pro His Tyr Arg Glu Ile Ala Phe
            100             105             110

Gln Leu Arg Val Gln Ser His Gly Asn Ile Val Lys Ile His Gln Val
        115             120             125

Leu Glu Ser Ser Ile Ala Thr Phe Ile Val Met Asp Tyr Tyr Asp Arg
    130             135             140

Asp Leu Phe Thr Ser Ile Val Asp Asp Lys His Phe Val Asn His Gly
145             150             155             160

Ile Leu Ile Lys Lys Val Phe Leu Gln Leu Cys Ser Ala Leu Asp His
            165             170             175
```

Cys His Arg Leu Gly Ile Tyr His Cys Asp Ile Lys Pro Glu Asn Val
          180   185   190

Leu Leu Asp Arg Asn Asp Asn Ala Tyr Leu Cys Asp Phe Gly Leu Ser
          195   200   205

Thr Lys Ser Lys Tyr Leu Ala Pro Asn Val Cys Val Gly Ser Ser Tyr
210   215   220

Tyr Met Ala Pro Glu Arg Ile Leu Tyr Cys Leu Asn Thr Thr Thr Asn
225   230   235   240

Gly Ile His Val Asp Glu Cys Cys Ser Ser Leu Pro Thr Asp Thr Gly
          245   250   255

Asp Ile Trp Ser Leu Gly Ile Ile Leu Ile Asn Leu Thr Cys Ile Arg
          260   265   270

Asn Pro Trp Leu Lys Ala His Gln Lys Glu Asp Asn Thr Phe Gln His
          275   280   285

Phe Ala Asn Asp Asn Asn Val Leu Lys Lys Ile Leu Pro Ile Ser Asp
290   295   300

Glu Leu Phe Thr Val Leu Thr Lys Ile Leu Gln Leu Asn Pro Tyr Thr
305   310   315   320

Arg Ile Asp Met Lys Thr Leu Met Ser Glu Val Ser Ser Leu Thr Ser
          325   330   335

Phe Thr Arg Glu Gly Pro Leu Ser Gln Val Pro Ile Leu Ser Ser Glu
          340   345   350

Val Tyr Met Thr His Ile Ile Arg Asn Glu Asn Leu Phe Leu Ser Asp
          355   360   365

Leu Ser His Phe Ser Ala Asp Gln Glu Gln Gln Gln Gln Gln Gln Gln
          370   375   380

Gln Gln Gln Gln Val Gln Glu Gln Glu Gln Glu Gln Lys Gln Glu Gln
385   390   395   400

Ile Gln Asn Gln Glu Gln Ala Gln Gln Gln Glu Glu Glu Asp Ala
          405   410   415

Glu Pro Glu Ser Asp Ile Pro Ser Thr Tyr Asn Ser Asp Gly Ser Met
          420   425   430

Glu Lys Tyr Glu Tyr Thr Asn Asn His Asn Asn Ser Thr Phe Leu Thr
          435   440   445

Ser Ser Met Asp Ser Thr Pro Tyr Gln Ser Asp Ile Asp Asp Val Ser
450   455   460

Ala Ser Lys Asp Cys Lys Phe Gln Gln Asp Thr Leu Arg Asn Arg Leu
465   470   475   480

Leu Cys Leu Gln Met Asn Phe Ser Thr Leu Thr Asp Gly Pro Asn Glu
            485   490   495

Lys Trp Leu Pro Asp Tyr
            500

<210> 19
<211> 461
<212> PRT
<213> Saccharomyces cerevisiae

<400> 19
Met Met Met Phe His Asn Cys Arg Ile Asn Asn Tyr Leu Ile Thr Ser
  1   5   10   15

Gln Ile Gly Glu Gly Ala Tyr Gly Leu Val Tyr Arg Ala Leu Asp Ile
            20   25   30

Arg Thr Asp Arg Gln Tyr Ala Ile Lys Ala Val Val Gln Ser Tyr Gly
            35   40   45

Val Ser Lys Glu Ala Asp Met Gly Asn Asp Lys Ile His Lys Asn Ser
      50   55   60

Val Lys Leu Gln Lys Lys Leu Ala Lys Leu Phe Lys Glu Ser Lys Asn
 65   70   75   80

Val Val Arg Val Pro Ser Ile Asp Leu Glu Ser Ile Glu Asn Met Ser
            85   90   95

Glu Glu Asp Phe Lys Lys Leu Pro His Tyr Lys Glu Ile Ser Leu His
            100   105   110

Leu Arg Val His His His Lys Asn Ile Val Thr Ile His Glu Val Leu
            115   120   125

Gln Ser Ala Val Cys Thr Phe Ile Val Met Asp Tyr Tyr Pro Thr Asp
      130   135   140

Leu Phe Thr Ser Ile Val Asp Asn Arg His Phe Val Thr Asn Gly Leu
145   150   155   160

Leu Val Lys Lys Val Phe Leu Gln Ile Cys Ser Ala Leu Asn Tyr Cys
                  165   170   175

His Glu His Gly Ile Tyr His Cys Asp Ile Lys Pro Glu Asn Leu Leu
            180   185   190

Leu Asp Thr Glu Asp Asn Val Phe Leu Cys Asp Phe Gly Leu Ser Thr
            195   200   205

Thr Ser Thr Tyr Ile Lys Pro Asn Val Cys Ile Gly Ser Ser Tyr Tyr
      210   215   220

Met Pro Pro Glu Arg Ile Ser Phe Asp Gly Arg Val Ser Ser Ser Lys
225   230   235   240

```
Ser Gly Gly His Lys Leu Gly Lys Val Cys Pro Ser Cys Asn Gly Asp
            245             250             255

Leu Trp Ser Leu Gly Ile Ile Leu Ile Asn Leu Thr Cys Ile Arg Asn
            260             265             270

Pro Trp Leu Lys Ala Asp Lys Thr Glu Asp Asn Thr Tyr Tyr Tyr Phe
            275             280             285

Thr Lys Asp Pro Asn Ile Leu Lys Gln Ile Leu Pro Leu Ser Asp Asp
    290             295             300

Phe Tyr Ser Leu Leu Ser Lys Ile Leu Gln Val Asn Pro Lys Asn Arg
305             310             315             320

Met Ser Leu Gln Glu Leu Met Lys Glu Val Ser Ser Ile Thr Ser Phe
            325             330             335

Thr Asn Glu Gly Pro Leu Ser Lys Val Pro Pro Leu Ser Lys Ser Val
            340             345             350

Tyr Glu Lys Phe Val Ser Pro Val Asp Asn Thr Asn Glu Asn Leu Ser
    355             360             365

Pro Lys Ser Tyr Val Tyr Met His Asp Ser Lys Ala Ala Lys Asn Leu
    370             375             380

Ser Tyr Thr Ser Ser Ser Glu Glu Glu Asp Gly Ile Lys Glu Gly Ile
385             390             395             400

Asp Asp Asp Asn Gly Ser Arg Ser Gly Ser Phe Gly Thr Leu Asp Thr
            405             410             415

Asp Thr Gly Leu His Ser Ser Phe Thr Ser Thr Ser Cys Glu Ser Asp
            420             425             430

Asn Glu Cys Ser Lys Ile Ser Asn Lys Phe Ser Leu Phe Glu Lys Lys
        435             440             445

Phe Asn Glu Leu Arg Met Ser Ser Ser Ser Leu Thr Asn
    450             455             460
```

<210> 20
<211> 470
<212> PRT
<213> Schizosaccharomyces pombe

<400> 20

```
Met Met Arg Glu Asn Pro Glu Leu Leu Leu Gly Gln Val Leu Gly Asp
  1             5               10              15

Ser Leu Arg Phe Val Ser Ile Ile Gly Ala Gly Ala Tyr Gly Val Val
            20              25              30

Tyr Lys Ala Glu Asp Ile Tyr Asp Gly Thr Leu Tyr Ala Val Lys Ala
        35              40              45
```

Leu Cys Lys Asp Gly Leu Asn Glu Lys Gln Lys Lys Leu Gln Ala Arg
    50   55   60

Glu Leu Ala Leu His Ala Arg Val Ser Ser His Pro Tyr Ile Ile Thr
65   70   75   80

Leu His Arg Val Leu Glu Thr Glu Asp Ala Ile Tyr Val Val Leu Gln
            85   90   95

Tyr Cys Pro Asn Gly Asp Leu Phe Thr Tyr Ile Thr Glu Lys Lys Val
         100   105   110

Tyr Gln Gly Asn Ser His Leu Ile Lys Thr Val Phe Leu Gln Leu Ile
         115   120   125

Ser Ala Val Glu His Cys His Ser Val Gly Ile Tyr His Arg Asp Leu
  130   135   140

Lys Pro Glu Asn Ile Met Val Gly Asn Asp Val Asn Thr Val Tyr Leu
145   150   155   160

Ala Asp Phe Gly Leu Ala Thr Thr Glu Pro Tyr Ser Ser Asp Phe Gly
         165   170   175

Cys Gly Ser Leu Phe Tyr Met Ser Pro Glu Cys Gln Arg Glu Val Lys
         180   185   190

Lys Leu Ser Ser Leu Ser Asp Met Leu Pro Val Thr Pro Glu Pro Ile
         195   200   205

Glu Ser Gln Ser Ser Ser Phe Ala Thr Ala Pro Asn Asp Val Trp Ala
      210   215   220

Leu Gly Ile Ile Leu Ile Asn Leu Cys Cys Lys Arg Asn Pro Trp Lys
225   230   235   240

Arg Ala Cys Ser Gln Thr Asp Gly Thr Tyr Arg Ser Tyr Val His Asn
         245   250   255

Pro Ser Thr Leu Leu Ser Ile Leu Pro Ile Ser Arg Glu Leu Asn Ser
         260   265   270

Leu Leu Asn Arg Ile Phe Asp Arg Asn Pro Lys Thr Arg Ile Thr Leu
         275   280   285

Pro Glu Leu Ser Thr Leu Val Ser Asn Cys Lys Asn Leu Thr Arg Arg
      290   295   300

Leu Arg Pro Ala Pro Leu Val Ser Ser Arg Tyr Leu Ala Tyr Gln Gln
305   310   315   320

Gln Gln Gln Gln Gln Gln Met Asn Leu Gln Gln Gly Ile Gln Gly Tyr
         325   330   335

Pro His Gln Gly Tyr Met Pro Thr Gln Asn Ile Gly Phe Pro Trp Pro
         340   345   350

```
Pro Thr Pro Gln Phe Val Ser Asn Trp Asn His Cys Ala Thr Pro Thr
        355             360             365
```

```
Ile Pro Val Ser Leu Gln Val Leu Thr Pro Asn Ser Ser Leu Lys Val
    370             375             380
```

```
Asp Pro Thr Thr Pro Leu Thr Ala Pro Ile His Ala Thr Glu Ser Phe
385             390             395             400
```

```
Trp Pro Ser Ala Ala Ala Ala Ala Ala Ala Val His Asn Asn Ala Asn
            405             410             415
```

```
Ser Tyr Met Pro Ile Thr Pro Thr Pro Tyr Pro Asn Asn Ala Lys Ile
        420             425             430
```

```
Phe Gly Tyr Pro Asn Gln Pro Pro Leu Thr Pro Ile Pro Phe Thr Gly
        435             440             445
```

```
Phe Val Leu His Pro Ala Pro Val Gly Arg Ala Ala Asp Ala Val Asp
    450             455             460
```

```
Pro Ser Arg Lys Ser Leu
465             470
```

```
<210> 21
<211> 474
<212> PRT
<213> Schizosaccharomyces pombe
```

```
<400> 21
Met Lys Leu Leu Gln Lys Lys Gly Tyr Lys Val Glu Arg Pro Leu Asn
  1           5              10              15
```

```
Lys Gly Ser Tyr Gly Thr Val Val Leu Ala His Arg Leu Phe Arg Thr
            20              25              30
```

```
Pro Arg Cys Lys Asp Leu Lys Tyr Ala Ile Lys Cys Ile Lys Lys Pro
        35              40              45
```

```
Ala Tyr Thr Phe Leu Gln Glu Val Asn Ile Leu Arg Gln Leu Ser Arg
    50              55              60
```

```
Ser Arg His Arg Asn Ile Ile His Phe Val Glu Ser Phe Glu Asp Asn
65              70              75              80
```

```
Val Tyr Tyr Tyr Val Val Leu Glu Tyr Cys Pro Leu Gly Asp Leu Tyr
            85              90              95
```

```
Glu Cys Ile Leu Asn Asn Asp Phe Pro Asn Ala Lys Asn Gln Pro Glu
        100             105             110
```

```
Met Ile Lys Asn Ile Phe Leu Gln Ile Ile Asp Gly Val Ala His Leu
        115             120             125
```

```
His Ser His Gly Ile Tyr His Arg Asp Leu Lys Pro Glu Asn Phe Leu
    130             135             140
```

```
Leu Ser Leu Ser Glu Asp Gly Ser Glu Leu Val Val Lys Ile Ser Asp
145             150             155             160

Phe Gly Leu Ala Cys Arg Asp Lys Ile Ser Tyr Asp Phe Gly Thr Gly
            165             170             175

Ser Asp Arg Tyr Met Ala Pro Glu Gln Phe Glu Glu Val Asp Gly Ala
            180             185             190

Gly Tyr Ser Pro Arg Ala Ala Asp Ile Trp Ala Leu Gly Ile Cys Leu
        195             200             205

Leu Asn Leu Ile Phe Ala Arg Asn Pro Phe Thr Tyr Pro His Glu Lys
    210             215             220

Asp Pro Ile Phe Ala Asp Tyr Met Leu Asp Ala Met Thr Leu Phe Asp
225             230             235             240

Val Phe Pro Thr Leu Ser Gln Asp Thr Tyr Asn Val Leu Arg Ala Cys
            245             250             255

Leu Cys Val Ser Pro Glu Lys Arg Ser Leu Ala Lys Thr Arg Glu Ala
            260             265             270

Val Leu Ala Val Thr Lys Trp Thr Thr Asp Asp Glu Glu Leu Glu Ser
    275             280             285

Phe Val Asn Glu Glu Glu Glu Phe Arg Ala Ser Asp Phe Met Pro Ala
    290             295             300

Glu Asp Asn Val Arg Cys Thr Gln Ser Asp Arg Glu Pro Leu Arg Thr
305             310             315             320

Pro Ser Val Leu Thr Pro Ala Asn Thr Ile Gln Arg Gly Leu Leu Pro
            325             330             335

Ser Lys Leu Pro Ala Leu Ser Asp Val Asp Glu Asn Ile Ser Thr Ser
            340             345             350

Ser Ser Pro Arg Ser Pro Ala Ser Leu Ala Pro Val Asn Asn Ser Glu
        355             360             365

Arg Ser Tyr Asp Ser Gly Leu Gly Glu Ser Leu Asn Asn Met His Ile
    370             375             380

Gly Lys Ser Ile Ala Thr Ala Val Pro Val Asn Thr Lys Arg Ser Pro
385             390             395             400

Tyr Ser Cys Ser Ala Pro Ala Ile Val Phe Pro Asn Ser Ile Lys Gly
            405             410             415

Asn Lys Asp His Leu Lys Phe Gly Arg Ser Trp Cys Asp Met Asp Glu
        420             425             430

Glu Asp Glu Glu Asp Ile Val Ser Phe Gly Ser Asn Asp Asp Phe Gly
        435             440             445
```

Ala Ser Asp Glu Leu Ser Ser Lys His Ile Gly Leu Ala Asp Asp Trp
    450   455   460

Asn Val Leu Ser Gln Trp Asn Asp Asn Ser
465   470

<210> 22
<211> 413
<212> PRT
<213> Pichia jadinii

<400> 22
Met Thr His Thr Asp Ile Thr Gly Ser Leu Ile Asn Glu Tyr Arg Ile
  1   5   10   15

Val Lys Leu Ile Gly Ser Gly Ala Tyr Gly Leu Val Tyr Gln Ala Gln
              20   25   30

Asn Thr Val Thr Gly Gln Gln Val Ala Ile Lys Cys Ile Ser Lys Lys
          35   40   45

Ser Asn Pro Ser Val Lys Lys Gln Ser Asp Tyr Leu Thr Thr Leu Leu
      50   55   60

Ala Glu His Leu Leu Glu Arg Asp Phe Ser Leu Gln Gly Leu Arg Glu
65   70   75   80

Met Ser Leu Lys Arg Leu Ser Met Ala Asp Asn Ile Pro Cys Pro Phe
              85   90   95

Val Arg Glu Ile Ser Ile His Leu Gln Val His Gln His Pro Asn Val
          100   105   110

Ile Ser Ile His Lys Ile Leu Asp Ser Gln Val Ala Val Phe Val Val
          115   120   125

Met Asp Tyr Tyr Pro Glu Gly Asp Leu Phe Val Asn Ile Val Asp Arg
    130   135   140

Gln Val Tyr Ala Arg Ser Ser Gly Leu Ile Lys Asp Val Phe Ile Gln
145   150   155   160

Leu Ile Asp Val Ile Ser Tyr Cys His Ser Lys Gly Ile Tyr His Cys
              165   170   175

Asp Ile Lys Pro Glu Asn Ile Met Cys Ala Asn Lys Gly Ser Lys Val
              180   185   190

Val Ile Gly Asp Phe Gly Leu Ala Val Lys Ser Lys Tyr Ile Gln Ser
          195   200   205

Lys Thr Cys Ile Gly Ser Ser Tyr Tyr Met Ala Pro Glu Arg Leu Cys
    210   215   220

Thr Met Asn His Ser Leu Thr Arg Leu Glu Tyr Pro Ala Cys Lys Gly
225   230   235   240

```
Asp Ile Trp Ser Leu Gly Val Ile Leu Ile Asn Phe Cys Cys Thr Arg
            245             250             255

Asn Pro Trp Met Lys Ala Cys Glu Lys Asp Ala Thr Tyr Ser Ala Phe
            260             265             270

Lys Lys Asp Pro Lys Ile Leu Met Glu Ile Leu Asp Ile Ser Glu Glu
            275             280             285

Leu Trp Asn Ile Leu Cys Asp Cys Phe Arg Glu Glu Pro Glu Glu Arg
    290             295             300

Ile Ser Leu Phe Glu Leu Arg Asp Arg Val Leu Lys Cys Arg Ser Phe
305             310             315             320

Thr Val Ala Gly Pro Leu Ser Arg Cys Asp Ser Tyr Glu Gln Asp Met
            325             330             335

Asp Asp Ala Leu Glu Cys Ala Val Pro Ala Asn Glu Ser Ser Val Gly
            340             345             350

Ser Asn Gly Ser Leu Asp Leu Pro Met Asp His Ile Ile Glu Tyr Ala
            355             360             365

Gln Tyr Leu Gln Thr Leu Ser Ser Val Lys Asn Thr Ala Ala Gly Asn
    370             375             380

Tyr Thr Gln Asn Gln Phe Val Leu Asp Asn Asn Ile Met Asp Asn Val
385             390             395             400

Ser Ile Met Ser Asn Lys Ser Phe Asn Met Asn Phe Ala
            405             410
```

```
<210> 23
<211> 506
<212> PRT
<213> Nectria haematococca

<400> 23
Met Gln His His Ala Ile Phe Gly Tyr Gln Thr Pro Pro Ala Ser Pro
  1             5               10              15

Gly Phe Asp Asn Pro Lys Cys Thr Ile Gln Gln Pro Phe Ala Val Pro
            20              25              30

Arg His Tyr Pro Thr Arg Pro Leu Ala Pro Glu Glu Arg Leu Gly Arg
        35              40              45

Val Leu Glu Gly Thr Leu Gln Leu Thr Glu Ile Leu Gly Thr Gly Ala
    50              55              60

Tyr Gly Val Val Tyr Leu Ala Val Asp Leu Lys Thr Gly Gly Lys Tyr
65              70              75              80

Ala Val Lys Cys Leu Ser Lys Phe Asn Ala Asp Gly Thr Gln Leu Glu
            85              90              95
```

Pro Arg Gln Phe Ala Tyr Gln Gln Arg Glu Ile Arg Leu His Trp Lys
        100   105   110

Ala Ser Asn His Ala Asn Val Val Gln Met Leu Lys Ile Val Asn Asp
        115   120   125

Pro Asp Cys Ile Tyr Val Ile Leu Glu Tyr Cys Pro Glu Gly Asp Leu
    130   135   140

Phe Leu Asn Ile Thr Glu Arg Gly Gln Tyr Val Gly Lys Asp Glu Leu
145   150   155   160

Ser Arg Asn Ile Phe Leu Gln Ile Leu Asp Ala Val Glu His Cys His
            165   170   175

Asn Leu Gly Ile Tyr His Arg Asp Leu Lys Pro Glu Asn Ile Leu Val
            180   185   190

Thr Asp Arg Gly Asp Thr Val Lys Leu Ala Asp Phe Gly Leu Ala Thr
    195   200   205

Ser Asp Asp Arg Ser Glu Asp Tyr Gly Cys Gly Ser Thr Phe Tyr Met
    210   215   220

Ser Pro Glu Cys Leu Asp Pro Ser Ala Arg Lys Pro Tyr Tyr Met Cys
225   230   235   240

Ala Pro Asn Asp Val Trp Ser Leu Gly Val Ile Leu Val Asn Leu Thr
            245   250   255

Cys Gly Arg Asn Pro Trp Lys Gln Ala Ser Phe Gln Asp Ser Thr Tyr
            260   265   270

Arg Ala Tyr Ala Gly Ser Lys Asp Phe Leu Lys Thr Ile Leu Pro Leu
        275   280   285

Ser Asp Glu Leu Asn Glu Ile Leu Gly Arg Ile Phe Glu Pro Asn Pro
    290   295   300

Glu Gln Arg Ile Thr Leu Asn Glu Leu Arg Thr Arg Ile Met Ala Cys
305   310   315   320

Ser Arg Phe Thr Met Pro Ala Val Ser Pro Pro Thr Pro Pro Ala Ser
            325   330   335

Pro Asp His Thr Thr Gln Tyr Val Ser Thr Glu Asp Ala Ile Ile Asp
            340   345   350

Asp Tyr Asp Tyr Asp Ser Pro Leu Ser Pro Ala Ser Ser Ser Asp Asp
        355   360   365

Glu Gly Ser Leu Thr Ser Ser Gly Ser Thr Ile Asp Asp Leu Asp Asp
    370   375   380

Asp Phe Asp Gln Glu Arg Gln Met Pro Gln Thr Pro Pro Glu Tyr Ala
385   390   395   400

Pro His Ala Phe Asp Pro Glu Glu Pro Lys Glu His Gln Leu Ile Tyr
            405   410   415

His Ser Gln Glu Phe Val Pro Gln Lys Tyr Ser Gly Pro Val Pro Val
            420   425   430

Pro Val Gln Val Pro Val Gly Val Pro Pro Gln Pro Met Leu Cys Gln
            435   440   445

Pro Val Pro Val Pro Ile Gln Ala Pro Val Pro Ile Gln Ala Pro Cys
        450   455   460

Gln Gln His Lys Ser Tyr Phe Pro Ile Trp Asp Met Val Lys Tyr Val
465   470   475   480

Gln His Val Pro Ile Leu Gln His His Ile Pro Phe His Gln Gln Val
                485   490   495

Pro Phe Met Pro Thr Phe Gln Gly Cys Tyr
            500   505

<210> 24
<211> 315
<212> PRT
<213> Candida albicans

<400> 24
Asp Leu Cys Tyr Ala Asn Ser Ile Ile Asp Tyr Asn Glu Leu His Leu
  1   5   10   15

Val Leu Ile Asp Phe Gly Leu Ala Met Asp Ser Ala Thr Ile Cys Cys
            20   25   30

Asn Ser Cys Arg Gly Ser Ser Phe Tyr Met Ala Pro Glu Arg Thr Thr
            35   40   45

Asn Tyr Asn Thr His Arg Leu Ile Asn Gln Leu Ile Asp Met Asn Gln
        50   55   60

Tyr Glu Ser Ile Glu Ile Asn Gly Thr Thr Val Thr Lys Ser Asn Cys
65   70   75   80

Lys Tyr Leu Pro Thr Leu Ala Gly Asp Ile Trp Ser Leu Gly Val Leu
            85   90   95

Phe Ile Asn Ile Thr Cys Ser Arg Asn Pro Trp Pro Ile Ala Ser Phe
            100   105   110

Asp Asn Asn Gln Asn Asn Glu Val Phe Lys Asn Tyr Met Leu Asn Asn
        115   120   125

Asn Lys Ala Val Leu Ser Lys Ile Leu Pro Ile Ser Ser Gln Phe Asn
        130   135   140

Arg Leu Leu Asp Arg Ile Phe Lys Leu Asn Pro Asn Asp Arg Ile Asp
145   150   155   160

Leu Pro Thr Leu Tyr Lys Glu Val Ile Arg Cys Asp Phe Phe Lys Asp
            165   170   175

Asp His Tyr Tyr Tyr Ala Gln His Gln His His His Asn His Asn Gln
            180   185   190

Ile Asn Asn Ala Tyr Asn His Tyr Gln Lys Gln Pro Asn Gln Ala Arg
            195   200   205

Pro Thr Ala Asn Gln Gln Leu Tyr Thr Pro Pro Glu Thr Thr Thr Tyr
    210   215   220

Asn Ser Tyr Ala Ser Asp Met Glu Glu Asp Glu Ile Ser Asp Asp Glu
225   230   235   240

Phe Tyr Ser Asp Glu Glu Asp Glu Asp Ile Glu Asp Tyr Glu Glu Glu
            245   250   255

Glu Glu Glu Tyr Phe Gly Asn Glu Gln Gln Gln Gln Gln Gln Val Thr
            260   265   270

Thr Val Asn Gly Asn Phe Gly Gln Val Lys Gly Thr Cys Tyr Tyr Asp
            275   280   285

Thr Lys Thr Lys Thr Thr Thr Tyr Ile Lys Pro Pro Ala Ala Tyr Thr
    290   295   300

Leu Glu Thr Pro Ser Gln Ser Val Glu Tyr Cys
305   310   315

<210> 25
<211> 640
<212> PRT
<213> Saccharomyces cerevisiae

<400> 25
Met Ser Pro Arg Gln Leu Ile Pro Thr Leu Ile Pro Glu Trp Ala Pro
 1   5   10   15

Leu Ser Gln Gln Ser Cys Ile Arg Glu Asp Glu Leu Asp Ser Pro Pro
            20   25   30

Ile Thr Pro Thr Ser Gln Thr Ser Ser Phe Gly Ser Ser Phe Ser Gln
            35   40   45

Gln Lys Pro Thr Tyr Ser Thr Ile Ile Gly Glu Asn Ile His Thr Ile
    50   55   60

Leu Asp Glu Ile Arg Pro Tyr Val Lys Lys Ile Thr Val Ser Asp Gln
65   70   75   80

Asp Lys Lys Thr Ile Asn Gln Tyr Thr Leu Gly Val Ser Ala Gly Ser
            85   90   95

Gly Gln Phe Gly Tyr Val Arg Lys Ala Tyr Ser Ser Thr Leu Gly Lys
            100   105   110

Val Val Ala Val Lys Ile Ile Pro Lys Lys Pro Trp Asn Ala Gln Gln
        115   120   125

Tyr Ser Val Asn Gln Val Met Arg Gln Ile Gln Leu Trp Lys Ser Lys
    130   135   140

Gly Lys Ile Thr Thr Asn Met Ser Gly Asn Glu Ala Met Arg Leu Met
145   150   155   160

Asn Ile Glu Lys Cys Arg Trp Glu Ile Phe Ala Ala Ser Arg Leu Arg
                165   170   175

Asn Asn Val His Ile Val Arg Leu Ile Glu Cys Leu Asp Ser Pro Phe
            180   185   190

Ser Glu Ser Ile Trp Ile Val Thr Asn Trp Cys Ser Leu Gly Glu Leu
        195   200   205

Gln Trp Lys Arg Asp Asp Asp Glu Asp Ile Leu Pro Gln Trp Lys Lys
    210   215   220

Ile Val Ile Ser Asn Cys Ser Val Ser Thr Phe Ala Lys Lys Ile Leu
225   230   235   240

Glu Asp Met Thr Lys Gly Leu Glu Tyr Leu His Ser Gln Gly Cys Ile
            245   250   255

His Arg Asp Ile Lys Pro Ser Asn Ile Leu Leu Asp Glu Glu Glu Lys
            260   265   270

Val Ala Lys Leu Ser Asp Phe Gly Ser Cys Ile Phe Thr Pro Gln Ser
    275   280   285

Leu Pro Phe Ser Asp Ala Asn Phe Glu Asp Cys Phe Gln Arg Glu Leu
    290   295   300

Asn Lys Ile Val Gly Thr Pro Ala Phe Ile Ala Pro Glu Leu Cys His
305   310   315   320

Leu Gly Asn Ser Lys Arg Asp Phe Val Thr Asp Gly Phe Lys Leu Asp
                325   330   335

Ile Trp Ser Leu Gly Val Thr Leu Tyr Cys Leu Leu Tyr Asn Glu Leu
            340   345   350

Pro Phe Phe Gly Glu Asn Glu Phe Glu Thr Tyr His Lys Ile Ile Glu
        355   360   365

Val Ser Leu Ser Ser Lys Ile Asn Gly Asn Thr Leu Asn Asp Leu Val
    370   375   380

Ile Lys Arg Leu Leu Glu Lys Asp Val Thr Leu Arg Ile Ser Ile Gln
385   390   395   400

Asp Leu Val Lys Val Leu Ser Arg Asp Gln Pro Ile Asp Ser Arg Asn
                405   410   415

His Ser Gln Ile Ser Ser Ser Ser Val Asn Pro Val Arg Asn Glu Gly
420   425   430

Pro Val Arg Arg Phe Phe Gly Arg Leu Leu Thr Lys Lys Gly Lys Lys
435   440   445

Lys Thr Ser Gly Lys Gly Lys Asp Lys Val Leu Val Ser Ala Thr Ser
450   455   460

Lys Val Thr Pro Ser Ile His Ile Asp Glu Glu Pro Asp Lys Glu Cys
465   470   475   480

Phe Ser Thr Thr Val Leu Arg Ser Ser Pro Asp Ser Ser Asp Tyr Cys
485   490   495

Ser Ser Leu Gly Glu Glu Ala Ile Gln Val Thr Asp Phe Leu Asp Thr
500   505   510

Phe Cys Arg Ser Asn Glu Ser Leu Pro Asn Leu Thr Val Asn Asn Asp
515   520   525

Lys Gln Asn Ser Asp Met Lys Thr Asp Arg Ser Glu Ser Ser Ser His
530   535   540

Ser Ser Leu Lys Ile Pro Thr Pro Ile Lys Ala Met Ile Arg Leu Lys
545   550   555   560

Ser Ser Pro Lys Glu Asn Gly Asn Arg Thr His Ile Asn Cys Ser Gln
565   570   575

Asp Lys Pro Ser Ser Pro Leu Met Asp Arg Thr Val Gly Lys Arg Thr
580   585   590

Val Asn Asn Ser Gly Ala Arg Lys Leu Ala His Ser Ser Asn Ile Leu
595   600   605

Asn Phe Lys Ala Tyr Ile Asn Ser Glu Asp Ser Asp Ile Arg Glu Thr
610   615   620

Val Glu Asp Val Lys Thr Tyr Leu Asn Phe Ala Asp Asn Gly Gln Ile
625   630   635   640

<210> 26
<211> 1142
<212> PRT
<213> Saccharomyces cerevisiae

<400> 26
Met Asp Arg Ser Asp Lys Lys Val Asn Val Glu Glu Val Asn Val Pro
 1   5   10 ,   15

Ser Asn Leu Gln Ile Glu Leu Glu Lys Ser Gly Thr Ser Ser Ser Val
                20   25   30

Ser Leu Arg Ser Pro Thr Lys Ser Ser Ala Thr Asn Leu Ala Gly Met
                35   40   45

Ala Glu Gly Ala Arg Asp Asn Ala Ser Ile Ala Ser Ser Ser Val Asp
    50   55   60

Ser Leu Asn Met Leu Leu Glu Arg Gln Arg Val Arg Gln Leu Asn His
65   70   75   80

Pro Gln His Gln Gln His Ile Ser Ser Ser Leu Ala Lys Thr Pro Thr
            85   90   95

Thr Thr Ser Ser Phe Cys Ser Ser Gly Ser Ser Lys Asn Lys Val Lys
        100   105   110

Glu Thr Asn Arg Ile Ser Leu Thr Tyr Asp Pro Val Ser Lys Arg Lys
        115   120   125

Val Leu Asn Thr Tyr Glu Ile Ile Lys Glu Leu Gly His Gly Gln His
    130   135   140

Gly Lys Val Lys Leu Ala Arg Asp Ile Leu Ser Lys Gln Leu Val Ala
145   150   155   160

Ile Lys Ile Val Asp Arg His Glu Lys Lys Gln Arg Lys Phe Phe Thr
            165   170   175

Phe Ile Lys Ser Ser Lys Ile Ser Glu Asn Asp Lys Ile Lys Arg Glu
        180   185   190

Ile Ala Ile Met Lys Lys Cys His His Lys His Val Val Gln Leu Ile
        195   200   205

Glu Val Leu Asp Asp Leu Lys Ser Arg Lys Ile Tyr Leu Val Leu Glu
    210   215   220

Tyr Cys Ser Arg Gly Glu Val Lys Trp Cys Pro Pro Asp Cys Met Glu
225   230   235   240

Ser Asp Ala Lys Gly Pro Ser Leu Leu Ser Phe Gln Glu Thr Arg Glu
            245   250   255

Ile Leu Arg Gly Val Val Leu Gly Leu Glu Tyr Leu His Tyr Gln Gly
        260   265   270

Ile Ile His Arg Asp Ile Lys Pro Ala Asn Leu Leu Ile Ser Gly Asp
        275   280   285

Gly Thr Val Lys Ile Ser Asp Phe Gly Val Ser Leu Ala Ala Ser Ser
    290   295   300

Thr Asn Ser Ser Asp Ser Ser Glu Ser Leu Asp Glu Leu Glu Leu Ala
305   310   315   320

Lys Thr Val Gly Thr Pro Ala Phe Phe Ala Pro Glu Met Cys Leu Gly
            325   330   335

Glu Asp Ala Phe Thr Arg Tyr Asn Leu Thr Lys Glu Asn Leu Phe Arg
            340   345   350

```
Gly Ser Cys Ile Ser Phe Met Ile Asp Ile Trp Ala Val Gly Val Thr
        355             360             365

Leu Tyr Cys Leu Leu Phe Gly Met Leu Pro Phe Phe Ser Asp Phe Glu
        370             375             380

Leu Lys Leu Phe Glu Lys Ile Val Asn Asp Pro Leu Lys Phe Pro Thr
385             390             395             400

Phe Lys Glu Ile Gln Ser Asn Lys Val Ser Lys Val Ser Cys Glu Glu
            405             410             415

Glu Tyr Glu Met Ala Lys Asp Leu Leu Leu Lys Leu Leu Glu Lys Asn
            420             425             430

Pro Gln Lys Arg Met Thr Ile Pro Ala Ile Lys Lys His Pro Phe Val
        435             440             445

Ser Trp Asp Phe Asp His Val Pro Glu Asn Asp Glu Lys Leu Leu Ser
    450             455             460

Ser Val Leu Glu Gln Lys Leu Arg Phe Gln Cys Asn Gln Thr Asp Gln
465             470             475             480

Phe Glu Pro Ile Ser Ile Ser Lys His Glu Leu Lys Asn Ala Val Ser
            485             490             495

Gly Val Gly Lys Lys Ile Lys Glu Ser Val Leu Lys Ser Ile Pro Leu
        500             505             510

Lys Asp Pro Ser Asp Leu Ser Asn Lys Asn Tyr Leu His Pro Thr Glu
        515             520             525

Thr Thr Arg Gly Arg Gly Asp Ala Asn Val Ile Val Ser Glu Gly Ser
        530             535             540

Val Leu Ser Asn Ile Lys Glu Leu Ser Ala Asn Asp Gly Cys Leu Asn
545             550             555             560

Thr Asp Ser Asp Thr Asn Ile Asn Ile Asn Asp Asp Asp His Tyr Ser
            565             570             575

Gly Asp Asp Asn Asp Gly His Leu Thr Lys Arg Glu Leu Glu Arg Glu
            580             585             590

Leu Asn Lys Phe Asp Asp Lys His Glu Ala Gly Asn Met Val Asn Leu
        595             600             605

Pro Ile Asn Ser Ser Phe Ala Ser Leu Asp Ser Phe Tyr Ile Asp Asn
    610             615             620

Phe Ala Met Ala Arg Met Gly Met Ser Ser Pro Glu Ala Gly Asp Ser
625             630             635             640

Val Ser Ser Val Pro Asn Leu Pro Ser Ala Pro Ser Ser Thr Arg Leu
            645             650             655
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Gly Arg Ser Pro Val Phe Ser Gly Val Thr Asn Gln Pro Ser Pro Ile
            660   665   670

Arg Pro Val Leu Pro Gln Gln Lys Ser Ser Phe Cys Ala Thr Gly Arg
            675   680   685

Tyr Asp Lys Ser His Asn Ser Leu Leu Arg Asn Ser Ser Ser His Leu
            690   695   700

Thr Ser Tyr Asn Ser Gly Arg Pro Ser Ser Arg Thr Gly Arg Met Asn
705   710   715   720

Ser Arg Asn Gln Asn Leu Pro Lys Ile Pro Asn Ser Leu Ser Lys Ile
                725   730   735

Ser Thr Thr Lys Leu Thr Glu Leu Arg Val Pro Lys Asp Ser Glu Ile
                740   745   750

Pro Ser Pro Ala Lys Asn Pro Asn Ala Asp Arg Leu Arg Arg Phe Pro
            755   760   765

Val Lys Lys Asn Thr Lys Thr Pro Ala Ile Lys Asp Pro Pro Arg Ile
            770   775   780

Asn Ile Asn Ser Ser Asp Lys Ser Gly Ser Lys Asn Ser Pro Ile Lys
785   790   795   800

Ser Leu Tyr Gln Arg Met Lys Gln Ser Lys Asp Asn Ser Lys Thr Phe
                805   810   815

Glu Val Arg Arg Gly Asn Phe Phe Ser His Phe Asn Gly Asp Asp Asp
                820   825   830

Asp Ser Ser Ser Gln Ser Ser Val Thr Ser Ser Gly Ser Glu Ser Asp
            835   840   845

Ser Glu Leu Ser Ser Thr Ser Ser Ser Cys Thr Ser Gly Thr Gln Ser
    850   855   860

Arg Asn Ser Ser Asn Asn Asn Ala Tyr Ser Glu Thr Glu Ser Leu Pro
865   870   875   880

Phe Glu Phe Gly Val Asp Ser Glu Asp Gly Ser Gly Val Leu Leu Arg
            885   890   895

Asp Leu Pro Asn Glu Asp Gln Ile Arg Pro Phe Leu Asp Ile Gln Pro
            900   905   910

Cys Arg Arg Met Lys Val Lys Ser Ser Leu Asn Leu Glu Pro Pro Ser
            915   920   925

Val Ser Ser Ser Ser Ser Ser Ser Ser Asp Glu Asp Glu Leu Ile Leu
    930   935   940

Asn Val Gly Thr Ala Gly His Arg Arg Arg His Asn Ser Ser Lys Leu
945   950   955   960

Ser Glu Leu Ser Asn Ser Pro Gln Lys Gly Ser Asn Asn Phe Met Tyr
              965   970   975

Ser Asn Gly Ser Val His Asp Ser Glu Thr Thr Ile Thr Pro Gln Asn
              980   985   990

Met Asp Asp Leu Thr Leu His Gln Ala Leu Ser Arg Ser Gln Pro Ile
          995   1000   1005

Ser Lys Pro Gly Pro Leu Val Leu Pro Lys Arg Leu Asp Gln Lys Lys
     1010   1015   1020

Ala Thr Thr Glu Thr Ser Asn Leu Thr Asp Ile Val Glu Phe Asn Gly
1025   1030   1035   1040

Asn Asn Asp His Arg Lys Asp Lys Asn Phe Asp Lys Val Leu Tyr Ser
              1045   1050   1055

Arg Asp Leu Leu Lys Asp Ala Leu Ser Ser Thr Asn Ala Gly Arg Arg
          1060   1065   1070

Arg Ser Ile Pro Ser Asn Lys Ile Arg Gly Arg Lys Asp Ala Ser Ile
         1075   1080   1085

Thr Met Ser Thr Asn Val Gly Asn Asp Glu His Ala Arg Asn Thr Ser
     1090   1095   1100

Cys His Gly Asp Lys Gly Gln Glu Asn Gly Ala Ile Lys Gln Arg Thr
1105   1110   1115   1120

His Glu Arg Ser Arg Ser Leu Thr Val Ala Glu Leu Asn Glu Glu Lys
              1125   1130   1135

Arg Arg Ser Ala Leu Pro
          1140

<210> 27
<211> 559
<212> PRT
<213> Saccharomyces cerevisiae

<400> 27
Met Val Leu Leu Lys Glu Pro Val Gln Pro Leu Pro Arg Ser Ser Leu
 1   5   10   15

Leu Tyr Asn Asn Ala Ser Asn Ser Ser Ser Arg Ile Lys Glu Thr Arg
          20   25   30

Lys Val Lys Leu Leu Tyr Asn Pro Leu Thr Lys Arg Gln Ile Leu Asn
          35   40   45

Asn Phe Glu Ile Leu Ala Thr Leu Gly Asn Gly Gln Tyr Gly Lys Val
     50   55   60

Lys Leu Ala Arg Asp Leu Gly Thr Gly Ala Leu Val Ala Ile Lys Ile
 65   70   75   80

Leu Asn Arg Phe Glu Lys Arg Ser Gly Tyr Ser Leu Gln Leu Lys Val
                85   90   95

Glu Asn Pro Arg Val Asn Gln Glu Ile Glu Val Met Lys Arg Cys His
            100   105   110

His Glu Asn Val Val Glu Leu Tyr Glu Ile Leu Asn Asp Pro Glu Ser
            115   120   125

Thr Lys Val Tyr Leu Val Leu Glu Tyr Cys Ser Arg Gly Pro Val Lys
    130   135   140

Trp Cys Pro Glu Asn Lys Met Glu Ile Lys Ala Val Gly Pro Ser Ile
145   150   155   160

Leu Thr Phe Gln Gln Ser Arg Lys Val Val Leu Asp Val Val Ser Gly
            165   170   175

Leu Glu Tyr Leu His Ser Gln Gly Ile Thr His Arg Asp Ile Lys Pro
            180   185   190

Ser Asn Leu Leu Ile Ser Ser Asn Gly Thr Val Lys Ile Ser Asp Phe
    195   200   205

Gly Val Ala Met Ser Thr Ala Thr Gly Ser Thr Asn Ile Gln Ser Ser
    210   215   220

His Glu Gln Leu Leu Lys Ser Arg Ala Leu Gly Thr Pro Ala Phe Phe
225   230   235   240

Ala Pro Glu Leu Cys Ser Thr Glu Lys Glu Tyr Ser Cys Ser Thr His
            245   250   255

Glu Ile Trp Ser Leu Gly Val Thr Ile Tyr Cys Leu Leu Phe Gly Lys
            260   265   270

Leu Pro Phe Asn Ala Asn Ser Gly Leu Glu Leu Phe Asp Ser Ile Ile
            275   280   285

Asn Lys Pro Leu Glu Phe Pro Ser Tyr Glu Glu Met Leu Asn Gly Ala
    290   295   300

Thr Ser Gly Ile Thr Met Glu Glu Tyr Thr Asp Ala Lys Asp Leu Leu
305   310   315   320

Lys Lys Leu Leu Gln Lys Asp Pro Asp Lys Arg Ile Lys Leu Ala Asp
            325   330   335

Ile Lys Val His Pro Phe Met Cys His Tyr Gly Lys Ser Asp Ala Ala
            340   345   350

Ser Val Leu Thr Asn Leu Glu Thr Phe His Glu Leu Lys Val Ser Pro
    355   360   365

Pro Ser Ser Cys Lys Arg Val Glu Leu Val Ser Leu Pro Val Asn Ser
    370   375   380

```
Ser Phe Ala Ser Leu Asp Ser Val Tyr Met Glu Asn Phe Asp His Asn
385             390             395             400

Asn Leu Arg Thr Gly Ala Asp Arg Asn Ser Thr Tyr Ser Pro Ser Ile
            405             410             415

Tyr Asp Ala Asn Thr Leu Ser Pro Ser Ala Tyr His Asn Ile Gly Ser
            420             425             430

Arg Glu Ser Ser Tyr Ser Ser Phe Ser Ser Phe Thr Ser Ser Thr Ala
        435             440             445

Phe Ala Ser Gln Ile Ser Ile Gln Asp Ala Pro Ala Ile Gly Asp Gln
    450             455             460

Gln Cys Leu Ile Gly Glu Ser Gly Ser Ser Leu Arg Val Asn Ser Cys
465             470             475             480

Glu Phe Pro Gln Tyr Thr Thr Met Ser Pro Val Gly Glu Tyr Pro Phe
            485             490             495

Glu Ser Thr Glu Ala Ser Leu Ser Ser Thr Leu Thr Pro Val Gly Asn
            500             505             510

Val Pro Gln Arg Ile Lys Ala His Leu Val Glu Gly Lys Ser Asn Ser
        515             520             525

Lys Asp Asp Leu Arg Ile Glu Ala Asp Ala Ser Leu Val Phe Glu Ala
        530             535             540

Ser Asp Ala Gln Arg Thr Arg Arg Arg Met Ser Leu Tyr Lys Leu
545             550             555
```

<210> 28
<211> 652
<212> PRT
<213> Schizosaccharomyces pombe

<400> 28
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Met Gly Ser Val Asn Asn Glu Glu Lys Thr Leu Ile Glu Pro Gln Arg
 1               5              10              15

Leu Leu Arg Lys Asn Thr Trp His Pro Glu Val Asp Asp Ser Glu Val
            20              25              30

Pro Pro Ser Val Phe Pro Glu Tyr Pro Val His Lys Ala Ile Gln Lys
        35              40              45

Thr Ser Asp Ser Phe Arg Lys Arg Asn Tyr Ser Ala Gly Asp Tyr Val
    50              55              60

Ile Ala Pro Leu Gly Gly Glu Arg Glu Gly Ser Ser Leu Thr His Ser
65              70              75              80

Trp Thr Phe Gln Pro Gly Lys His Asn Gln Arg Leu Tyr Ser Asp Asn
            85              90              95
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Phe Gln Glu Ala Gln Arg Gln Trp Lys Arg Leu Gln Glu Trp Gly Glu
        100   105   110

Val Lys Glu Thr Lys Lys Ile Arg Lys Arg Phe Asp Arg Phe Ser Gly
        115   120   125

Arg Lys Tyr Ile Asn His Tyr Glu Ile Ile Lys Glu Leu Gly Arg Gly
        130   135   140

Met His Gly Lys Val Lys Leu Gly Arg Asp Thr Val Thr Arg Glu Leu
145   150   155   160

Leu Ala Ile Lys Ile Ile Pro Lys Thr Glu Arg Arg Pro Lys Leu Gly
                165   170   175

Arg Ala Asn Ala Ser Ser Gln Lys Glu Lys Val Arg Arg Glu Ile Ala
                180   185   190

Ile Leu Lys Lys Cys Val His Pro Asn Val Val Arg Leu Arg Glu Val
        195   200   205

Ile Asp Asp Pro Ser Ser Thr Lys Val Tyr Leu Val Leu Glu Tyr Met
        210   215   220

Ser Gly Gly Glu Val Pro Trp Thr Asp Cys Asp Ser Pro Val Leu Ser
225   230   235   240

Ile Ser Glu Ala Arg Gln Tyr Phe Arg Asp Val Val Leu Gly Leu Glu
                245   250   255

Tyr Leu His Tyr Gln Gly Ile Ile His Arg Asp Ile Lys Pro Ala Asn
        260   265   270

Leu Leu Leu Asn Ser Ser Asn Cys Val Lys Ile Ser Asp Phe Gly Val
        275   280   285

Ser Tyr Ile Ala Asn Ala Gly Leu Asn Glu Asp Asn Asp Val Glu Leu
        290   295   300

Ala Lys Thr Val Gly Thr Pro Ala Phe Phe Ala Pro Glu Leu Cys Trp
305   310   315   320

Thr Asp Leu Asp Arg Pro Arg Pro Lys Ile Ser Glu Ala Ile Asp Val
                325   330   335

Trp Ala Leu Gly Val Thr Leu Phe Cys Leu Leu Phe Gly Arg Cys Pro
                340   345   350

Phe Asn Ala Ser Met Glu Tyr Glu Leu Phe Asp Lys Ile Val Asn Glu
        355   360   365

Arg Leu Asn Ile Pro Ser Thr Pro Asp Ile Gly Glu Glu Gly Arg Asp
        370   375   380

Leu Leu Lys Arg Leu Leu Cys Lys Asp Pro Glu Gln Arg Ile Thr Leu
385   390   395   400

Val Glu Val Lys Leu His Pro Trp Thr Leu Asp Gly Leu Lys Asp Pro
          405   410   415

Glu Lys Trp Leu Gln Asn Thr Asp Pro Ser Thr Val Ser Arg Val Glu
          420   425   430

Val Ser Thr Asp Glu Val Ala Ser Ala Ile Ser Leu Val Gly Arg Leu
          435   440   445

Arg Arg Lys Leu Gly Lys Leu Phe Arg Phe Arg Arg Pro Lys Ala Arg
          450   455   460

Val Phe Asp Ser Ser Ser Ser Val Pro Ser Asp Ser Ser Ile Cys Arg
465   470   475   480

Pro Glu Ser Ser Gly Asn Ser Ser Ile Gly Leu Ser Ala Ser Glu Leu
             485   490   495

Ser Asp Ser Phe Asn Arg Leu Ala Val Asn Glu Ser Gln Lys Asp Arg
          500   505   510

Glu Arg Lys Gln Val His Pro Val Glu Met Gly Arg Asn Ser Ser Glu
          515   520   525

Lys Lys Pro Arg Cys Asp Phe Gly Trp Asp Tyr Glu Ala Phe Pro Asn
          530   535   540

Asp Asn Gln Asp Ala Asp Asp Ala Cys Ser Tyr Asn Thr Gly Asp Ser
545   550   555   560

Ile Pro Gln Val Ser Lys Ser Ile Asn Gly His Phe Glu Thr Tyr Ser
             565   570   575

Arg Thr Ser Met Asp Thr Asp Asp Val Ala Ser Phe Glu Ser Pro Asn
             580   585   590

Ala Lys His Glu Glu Ser Gly Met Pro Val Val Thr Phe Arg Asn Tyr
          595   600   605

Glu Asn Tyr Asp Ala Asn Pro Ser Asn Phe His Pro Val Val Pro Gly
       610   615   620

Phe Val Ser Ser Pro Asn Leu His Leu Ala Gly Gly Ser Asp Thr Pro
625   630   635   640

Ile Tyr Cys Ile Glu His Ser Phe Thr Pro Thr Asn
             645   650

<210> 29
<211> 1408
<212> PRT
<213> Candida albicans

<400> 29
Met Ser Thr Ser Leu Ser His Gln Glu Leu Ser Thr Glu Lys Gly Gln
  1   5   10   15

Ser Cys Pro Pro Ile Pro Asp Ser Asn Pro Leu Asn Pro Lys Ser Pro
            20   25   30

Ala Leu Arg Thr Thr Ser Asn Ser Thr Ile Leu Asn Ser Pro Ile Glu
            35   40   45

Thr Ile Asn Val Asn Thr Ser Ser Lys Ser Asn Ile Ser Gly Glu Ser
        50   55   60

Thr Ile Asn Gly Ser Ala Tyr Ser Asn Ser Thr Thr Val Val Gln Pro
65   70   75   80

Glu Val Phe Gly Glu Ala His Thr Thr Thr Ser Thr His Asn Ser Ala
            85   90   95

Ser Thr Arg Thr Glu Arg Asn Glu Phe Pro Asn Ser His Leu His Gln
            100   105   110

His Gln Gln Glu Ser Arg Asn Asn Gly Glu Ser Asn Thr Pro Met Thr
        115   120   125

Ser Pro Lys His Phe Pro Thr Asp Asp Leu Arg His Ser Leu Phe Tyr
    130   135   140

Lys Ala Gly Ser Ala Ala His His Lys Ser Ala Thr Ser Ser Lys Gln
145   150   155   160

Ser Ser Thr Thr Ser Leu Lys Asp Gly Leu Asn Asn Ala Asn Thr Tyr
            165   170   175

His Phe Gln Asn Thr Phe Leu Asp Asn Asn Val Met Ser Asp Leu Glu
        180   185   190

Glu Ser Pro Val Pro Asn Glu Arg Asn Pro Ile Gln Asp Thr Gly Leu
    195   200   205

Gly Pro Arg Ser His Ala Thr Lys Phe Gly Val Gln Ser Thr Thr Ser
    210   215   220

Leu Pro Thr Thr Ile Ser Gln Ser Arg Leu Pro Asn Ser Asn Lys Ser
225   230   235   240

Ser Phe Phe Pro Phe Lys Ser Tyr Thr Ser Ser Pro Val Lys Glu Thr
            245   250   255

Lys His Val Phe Leu Glu Tyr Asp Pro Ile Thr Arg Arg Lys Val Leu
            260   265   270

Asn Thr Tyr Glu Ile Leu Arg Glu Ile Gly Lys Gly Glu His Gly Lys
        275   280   285

Val Lys Leu Ala Arg Asp Leu Ile Asn Asn Glu Leu Val Ala Ile Lys
    290   295   300

Ile Val Asn Arg Lys Ser Arg Lys Glu Arg Pro Ser Leu Arg Met Arg
305   310   315   320

Lys Asn Ser Ser Ala Pro Val Ile Asn Glu Tyr Glu Leu Lys Val Lys
                325   330   335

Arg Glu Ile Ala Ile Met Lys Lys Cys Arg His Lys His Ile Val Ala
            340   345   350

Leu Arg Glu Val Leu Asp Asp Leu Asn Ser Leu Lys Ile Tyr Leu Val
        355   360   365

Leu Glu Tyr Met Glu Lys Gly Glu Ile Lys Trp Lys Lys Leu Gln Ser
    370   375   380

Asp Val Ala Lys Pro Thr Ala Asn Lys Cys Tyr Asp Ala Asn Asp Asn
385   390   395   400

Glu Ile Pro Cys Cys Gly Asn Gly Arg Met Gln Gln Arg Gln Gln Ser
            405   410   415

Leu Leu Thr Asp Glu Asp Leu Leu Ser Asn Glu Phe Ser Pro Asn Leu
        420   425   430

Thr Phe Lys Gln Ser Arg Lys Ile Phe Arg Asp Val Leu Leu Gly Leu
        435   440   445

Glu Tyr Leu His Met Gln Gly Ile Val His Arg Asp Ile Lys Pro Ala
    450   455   460

Asn Leu Leu Val Ser Ala Asp Asn Ile Val Lys Ile Ser Asp Phe Gly
465   470   475   480

Val Ser Phe Ala Thr Ser Leu Ala Glu Asn Asp Glu Gly Tyr Leu Val
            485   490   495

Asn Glu Leu Asp Leu Ala Lys Thr Ala Gly Thr Pro Ala Phe Phe Ala
            500   505   510

Pro Glu Leu Cys Gln Phe Asp Asp Glu Thr Ala Thr Glu Lys Leu Ser
        515   520   525

Ser Ser Thr Glu Ser Met Ala Pro Pro Lys Ile Asp Tyr Lys Ile Asp
    530   535   540

Ile Trp Ala Leu Gly Val Thr Leu Tyr Cys Leu Leu Phe Gly Lys Val
545   550   555   560

Pro Phe Asn Ala Asp Thr Glu Tyr Asp Leu Phe Gln Val Ile Val Lys
            565   570   575

Glu Pro Leu Lys Phe Pro Asn Ser Ile Lys Ala Phe Asn Pro Pro Ala
        580   585   590

Thr Val Thr Glu Glu Glu Phe Glu Leu Ala Lys Asp Leu Leu Ser Lys
        595   600   605

Met Leu Asp Lys Asn Asn Arg Thr Arg Ile Glu Ile Gln Asp Ile Lys
    610   615   620

Glu His Pro Phe Thr Leu Met Asp Leu Asp Asn Asp Val Asp Gly Leu
625   630   635   640

His Glu Leu Phe His Leu Asn Gly Asp Asn Pro Val Glu Pro Leu Ser
              645   650   655

Phe Asp Leu Asp Glu His Asp Ile Val Ser Lys Asp Glu Val Asp Asn
          660   665   670

Ala Val Ile Gly Val Gly Ala Arg Ile Lys Arg Ser Leu Val Arg Ala
          675   680   685

Ile Arg Ala Gly Gly Leu Lys Asp Gly Glu Ile Arg Asn Lys Phe Ala
      690   695   700

Ala Leu Gln Leu Glu His Ser Arg Ser Glu Asn Ser Glu Glu Ser Ser
705   710   715   720

Ser Gly Tyr Ser Asn Tyr Ser Ser Ser Thr Arg Leu Leu Gly Tyr Gln
              725   730   735

Asn Gly Gln Asn Tyr Ser Met Ile Leu Ser Glu Gly Leu Pro Val Ser
          740   745   750

Ser Ala Thr Pro Pro Pro Ala Leu Leu Ala Ala Gln Gln Lys Arg Ser
          755   760   765

Ser Leu Leu Ser Pro Lys Ser Gly Gly Ile Ser Glu Lys Asn Asn Pro
      770   775   780

His Phe Pro Ser Ser Leu Ala His Gln Ile Pro Asn Thr Ser Ser Pro
785   790   795   800

Ser Thr Cys Ser Ser Ser Thr Ser Met Ala Phe Gln Asn His Phe Ser
              805   810   815

Phe Ala Gly Met Arg Glu Ser Gly Lys Ser Leu Leu His Asp Met Ile
              820   825   830

Glu Ser Asn Ser Asn Asn Ser Ser Arg Arg Gly Ser Ser Ala Gly Ile
      835   840   845

Thr Val Ser Glu Ala Pro Gln Ile Glu Thr Lys Arg Asn Val Gly Gly
      850   855   860

Asp Leu Tyr Leu Lys Asn Gln Ser Val Val Glu Thr Phe Lys Gly Ile
865   870   875   880

Gln Leu Gln Asp Asp Lys Arg Arg Arg Ser Ser Ile Phe Ser Leu His
              885   890   895

Ser Gln Ile Gly Thr Asn Ser Asn Lys Ser Ser Leu Ser His Glu Leu
          900   905   910

Thr Pro Thr Gln Thr Gly Ser Gly Ala Ser Thr Gln Gln Gln His Gln
          915   920   925

His Tyr Ser Thr Asn Tyr Ser Asn Ile Ala Ala Pro Ile Pro Val Pro
  930   935   940

Ala Pro Arg Lys Gln Ser Thr Ser Asp Asn Glu Gln Asp Ile Lys Ala
945   950   955   960

Pro Leu Leu His Gln Glu Lys Asn Val Met Gly Lys Pro Tyr Leu Lys
          965   970   975

Ile Gly Pro Ile Ser Ile Ala Arg Glu Asp Glu Lys Ser Ala Asp Asp
        980   985   990

His Pro Asp Ser Ser Ile Ile Ser Leu Pro Leu Ser Glu Ser Phe Ala
      995   1000   1005

Ser Leu Asp Ser Ile Asn Asp Asp Tyr Leu Ser Arg Lys Tyr Glu Glu
  1010   1015   1020

Tyr Thr Asn Asn Arg Lys Glu Asn Ser Lys Ser Glu Gly Asn Val Pro
1025   1030   1035   1040

Val Ile Ser Leu Arg Arg Lys Ser Ser Leu Ser Glu Ser Asp Leu Thr
        1045   1050   1055

Arg His Val Gln Leu Lys Asp Pro Phe Gly Lys Phe Lys Pro Asp Gly
      1060   1065   1070

Ser Glu Ile Ala Glu Lys Phe Lys Ala Phe Asn Leu Gly Asn Leu Met
    1075   1080   1085

Lys Thr Gly Gly Lys Phe Ala Leu Ala Glu His Asn Ser Ser Asp Ser
  1090   1095   1100

Gln Gln Ile Lys Gly Asn Asn Tyr Gln Ser Ser Asp Asp Gly Ile Ala
1105   1110   1115   1120

Pro Lys Ala Ile Val Pro Ala Ile Ser Tyr Ser Ser Ser Asp Ser Tyr
        1125   1130   1135

Ser Ser Cys Ser Ser Ser Ser Phe Asp Asp Glu Asp Glu Ser Asp Asp
      1140   1145   1150

Asp Glu Glu Asn Leu Thr Leu Ala Phe Gln Ser Lys Val Ala Pro Ile
    1155   1160   1165

Ser Arg Ala Asn Phe Leu Ser Leu Thr Gly Arg Ala Lys Ser His Asp
  1170   1175   1180

Ser Asn Leu Pro Thr Leu Arg Gln Asn Arg Glu Lys Gly Arg Gln Leu
1185   1190   1195   1200

Asn Pro Glu Phe Gln Gly Pro Ile Ile Phe His Asp Gly Leu Pro Glu
      1205   1210   1215

Phe Glu Asp Val Pro Asp Gly Leu Ile Asn Ser Asn Pro Ile Gly Asn
      1220   1225   1230

Asn Asn Val Asn Gly Asn Ser Ala Phe Asn Ser Gly Tyr Ser Tyr Tyr
    1235   1240   1245

Asp Asn Val Asn Pro Thr Val Val Ser Ser Asn Val Ser Thr Ala Thr
    1250   1255   1260

Leu Thr Met Gly Met Ala Pro Ser Glu Ser Val Glu Thr Asn Val Glu
1265   1270   1275   1280

Ala Pro Ala Gln Glu Asn Ala Val Lys Val Ser Ser Pro Leu Asn Pro
            1285   1290   1295

His Lys Asn Thr Ser Ser Arg Ser Asp Ile Leu Lys Asp Leu Lys Lys
          1300   1305   1310

Asn Thr Ser Ile Ser Phe Gly Glu Ile Leu Phe Asn Asp Gln Phe Asn
        1315   1320   1325

Asn His Tyr Lys Lys Asp Pro Val Tyr Ser Pro Phe Pro Ser Ala Lys
      1330   1335   1340

His Leu Asp Asn Asp Gln Glu Thr Ile Val Lys Glu Ser Ala Ser Lys
1345   1350   1355   1360

Phe His Glu His Arg Pro Thr Tyr Tyr Arg Ser Asn Ser Val Thr Ile
          1365   1370   1375

Gly Leu Leu His Arg Ser Thr His Arg Glu Asp Asp Asp Asp Val Ser
      1380   1385   1390

Gln Thr Gly Asn Asp Leu Glu Gln Leu Ile Thr Lys Glu Lys Gln Gly
    1395   1400   1405

<210> 30
<211> 855
<212> PRT
<213> Saccharomyces cerevisiae

<400> 30
Met Gly Asp Glu Lys Leu Ser Arg His Thr Ser Leu Lys Arg Ala Arg
  1   5   10   15

Ser Leu Ser Glu Ser Ile Lys Gly Leu Phe Lys Pro Ser Gly Ile Ser
        20   25   30

Gly Ser Asn Asn Ala Ala Ala Pro Ser Ser Arg Pro Gly Gln Asp Gln
      35   40   45

Ala His Ser His Gln Thr Ala Arg Ile Ile Thr Ser Asn Val Ser Ser
    50   55   60

Pro Ser Ile Ser Pro Val His Ser Pro Val Leu Gln Ala Ala Pro Lys
65   70   75   80

His His Lys Leu Gly Val Pro Asn Ile Ala Lys Leu Ser Leu Ser Pro
        85   90   95

```
Ser Arg Glu Pro Ser Leu Asn Ser Glu Asn Glu Met Phe Ser Gln Glu
            100                 105                 110

Ser Phe Ile Ser Glu Lys Asp Glu Asp Glu Ala Asn Leu Leu Glu Arg
            115       ·         120                 125

Glu Asp Leu Gln Asn Lys Lys Glu Glu Lys Ala Arg Ala Lys His Val
    130                 135                 140

Arg Ser Lys Glu Ala Tyr Val Pro His His Arg Tyr Thr Val Gly Ser
145                 150                 155                 160

Asp Glu Val Glu Arg Gln Pro Arg Glu Arg Leu Lys Asn Phe Pro Gln
                165                 170                 175

Asn Ala Gly Ser Ser Asn Pro Ala Asn Ser Asn Ala Asn His Val Leu
            180                 185                 190

Asp Gln Glu Asn Asn Phe Ser Ile Asp Ala Met Leu Asp Tyr Asp Glu
    195                 200                 205

Glu Ser Lys Leu Arg Arg Arg Asn Ser Leu Gly Val Arg Asn His Ser
    210                 215                 220

Asn Arg Thr Arg Ser Arg Lys Asn Ser Leu Ser Thr Pro Arg Ser Pro
225                 230                 235                 240

Pro Met Lys Asn Gly Asn Gly Gly Met Asn Ser Asn Ala Thr Asn Asn
            245                 250                 255

Val Gly Asn Gly Thr Gly Asn Arg Ile Tyr Met Arg Gly Arg Asn His
            260                 265                 270

Ser Asp Ser Ile Ser Ala Ser Ser Leu Pro Lys Phe Gln Glu Ile Glu
            275                 280                 285

Cys Lys Cys Ile Leu Asp Leu Gly His Phe Lys Val Phe Glu Asn Gly
    290                 295                 300

Tyr His Glu His Ser Leu Arg Val Leu Pro Ile Ile Thr Asn Asn Lys
305                 310                 315                 320

Asn Val Asp Ser Gly Asp Glu Lys Asp Ala Asp Ala Ser Val Asn Ser
            325                 330                 335

Gly Asp Asp Gly Asp Asn Asp Ser Glu Ala Asn Met His Lys Gln Lys
            340                 345                 350

Ser Val Phe Ser Leu Ser Gly Leu Phe Lys Ser His Lys Asp Gly Asn
            355                 360                 365

Gln Gln Gln Gln Gln Gln Gln Gln Glu Glu Asn Gly Glu Gln Ile
    370                 375                 380

Asn Leu Glu Lys Ala Phe Ser Ile Ile Pro Ser Gln Arg Phe Ile Lys
385                 390                 395                 400
```

Ser Gln Thr Leu Lys Lys Ser Arg Thr Ser Asn Leu Lys Asn Gly Asn
            405   410   415

Asn Asp Glu Leu Met Lys Asn Asp Gly Lys Asn Ile Pro Gln Ile Val
            420   425   430

Asn Pro Asn Ala Ala Val Gly Val Glu Glu Leu Lys Leu Ile Asn Ala
            435   440   445

Leu Ser Glu Lys Ile Arg Lys Gly Leu Lys Ser Glu Asn Thr Lys Gly
            450   455   460

Asn Asn Gly Glu Gly Arg Ser Asn Ser Asn Lys Gln Glu Asp Ser Asp
465   470   475   480

Asp Thr Glu Gly Lys Ala Gly Thr Thr Asn Asp Asp Thr Ser His Lys
            485   490   495

Pro Cys Ser Gln Lys Tyr Gly Lys Ser Ile Gly Val Val Gly Ala Gly
            500   505   510

Ala Tyr Gly Val Val Lys Ile Cys Ala Arg Cys Lys Thr Ala Lys Asp
            515   520   525

Val Leu Pro Tyr Ser Thr Tyr Ser Asn Gly Lys Lys Leu Phe Phe Ala
            530   535   540

Val Lys Glu Leu Lys Pro Lys Pro Gly Asp Gln Ile Asp Lys Phe Cys
545   550   555   560

Thr Arg Leu Thr Ser Glu Phe Ile Ile Gly His Ser Leu Ser His Pro
            565   570   575

His Phe Glu Ala Asn Ala Met Ile Ala Gly Asn Val Ser Arg Thr Thr
            580   585   590

Pro Pro Lys His Val Phe Asn Ala Pro Asn Ile Leu Lys Ile Leu Asp
            595   600   605

Leu Met Glu Tyr Ser Asn Ser Phe Val Glu Val Met Glu Phe Cys Ala
    610   615   620

Ser Gly Asp Leu Tyr Ser Leu Leu Thr Arg Asn Asn Ile Ser Asn Glu
625   630   635   640

Ser Asn Asn Gly Ser Ser Arg Leu Ile Gln Thr Val Lys Glu Gly Ser
            645   650   655

Gly Ser Pro Leu His Pro Leu Glu Ala Asp Cys Phe Met Lys Gln Leu
            660   665   670

Leu Asn Gly Val Gln Tyr Met His Asp His Gly Ile Ala His Cys Asp
            675   680   685

Leu Lys Pro Glu Asn Ile Leu Phe Gln Pro Asn Gly Leu Leu Lys Ile
            690   695   700

```
Cys Asp Phe Gly Thr Ser Ser Val Phe Gln Thr Ala Trp Glu Lys His
705             710             715                     720

Val His Phe Gln Ser Gly Ala Met Gly Ser Glu Pro Tyr Val Ala Pro
            725             730             735

Glu Glu Phe Ile Arg Asp Ala Glu Tyr Asp Pro Arg Leu Val Asp Cys
            740             745             750

Trp Ser Cys Gly Ile Val Tyr Cys Thr Met Val Met Gly Gln Tyr Leu
        755             760             765

Trp Lys Ile Ala Ile Pro Glu Lys Asp Ser Leu Phe Lys Ser Phe Leu
    770             775             780

Ser Glu Ile Lys Asp Asp Gly Gln Phe Tyr Leu Phe Glu Glu Leu Arg
785             790             795                     800

His Val Ser Ser Glu Leu Asn Arg Leu Arg Lys Ile Ala Leu Tyr Arg
            805             810             815

Thr Phe Gln Val Asp Pro Thr Lys Arg Ile Thr Ile Glu Gln Leu Leu
        820             825             830

Gln Ser Ser Trp Met Arg Lys Thr Lys Cys Cys Val Val Tyr Arg His
    835             840             845

Leu His Thr Lys Val Ser Lys
    850             855


<210> 31
<211> 734
<212> PRT
<213> Saccharomyces cerevisiae

<400> 31
Met Met Asp Ser Lys Thr Leu Thr Ala Ser Met Val Met Gln Glu Glu
  1             5               10                      15

Lys Lys Arg Gln Gln Pro Val Thr Arg Arg Val Arg Ser Phe Ser Glu
            20              25              30

Ser Phe Lys Asn Leu Phe Arg Pro Pro Arg Ser Arg Asp Ser Ser Pro
        35              40              45

Ile Asn Val Thr Arg Ile Pro Tyr Arg Ser Ser Ser Thr Ser Pro Lys
        50              55              60

Arg Ser Ser Glu Pro Pro Arg Arg Ser Thr Val Ser Ala Gln Ile Leu
65              70              75                      80

Asp Pro Lys Asn Ser Pro Ile Arg Gln Arg Ser Tyr Thr Leu Lys Cys
            85              90                      95

Cys Thr Pro Gly Leu Ser His Pro Phe Arg Gln Thr Gly Ser Gly Ala
            100             105             110
```

Ser Asn Ser Pro Thr Arg His Arg Ser Ile Ser Gly Glu Glu Gln Glu
        115   120   125

Ile Val Asn Ser Leu Pro Glu Tyr Lys Arg Ser Ala Ser His Thr Phe
    130   135   140

His Gly Ile Arg Arg Pro Arg Ser Arg Ser Ser Ser Val Ser Ser Cys
145   150   155   160

Asp Ser Ser Asn Gly Thr Thr Ser Ser Ser Asp Ser Gln Trp Ala Met
            165   170   175

Asp Ser Leu Leu Asp Asp Ser Asp Asn Asp Leu Thr Pro Tyr Arg Gly
        180   185   190

Ser Asn Lys Asp Ile Leu Lys Ser Lys Asp Arg Ala Pro Tyr Asn Tyr
        195   200   205

Ile Asp Asp Tyr Asn Lys Lys Ala Leu Arg Arg Ala Thr Ser Tyr Pro
    210   215   220

Asn Pro Leu Pro Ser Lys Gln Phe Tyr Asn Glu Arg Leu Tyr Thr Arg
225   230   235   240

Arg Ser His Pro Asp Glu Glu Ser Leu Glu Ser Leu Pro Arg Phe Ala
            245   250   255

Gly Ala Asp Val Gln Cys Ile Ile Glu Gln Asn Gly Phe Lys Val Tyr
            260   265   270

Glu Asp Gly Ser His Glu His Asn Ile Lys Leu Ser Gly Val Ile Ala
        275   280   285

Lys Leu Glu Lys Gly Asn Ser Leu Pro Ala His Arg Gln Gly Ser Leu
    290   295   300

Ser Arg Pro Arg Leu Gly Ile Thr Leu Ser Gly Leu Phe Lys His His
305   310   315   320

Lys Asn Glu Cys Asp Ile Glu Asn Ala Leu Ser Leu Leu Pro Asn Val
            325   330   335

Glu Lys Ser Gln Thr Asn His Glu Lys Arg Thr Gly Gln Ser Pro Asn
            340   345   350

Asp Ser Asn Arg Ser Ser Pro Thr Gln Gly Arg Glu Asp Tyr Leu Lys
        355   360   365

Ile Val Asn Pro Asp Ala Ser Leu Gly Ser Asp Glu Leu Lys Leu Ile
    370   375   380

Asn Ser Leu Ser Ser Arg Ile His Lys Ser Leu Gln Asn Tyr Leu Gln
385   390   395   400

Glu Lys Asn Leu Lys Pro Ala Glu Cys Ile Gly Glu Gln Ala Pro Thr
            405   410   415

Phe Gln Asp Asn Tyr Gly His Pro Val Gly Leu Val Gly Ala Gly Ala
        420   425   430

Tyr Gly Glu Val Lys Leu Cys Ala Arg Leu Arg Asn Glu Lys Asp Ser
        435   440   445

Pro Pro Phe Glu Thr Tyr His Asp Ser Lys Tyr Ile Tyr Tyr Ala Val
    450   455   460

Lys Glu Leu Lys Pro Lys Pro Asp Ser Asp Leu Glu Lys Phe Cys Thr
465   470   475   480

Lys Ile Thr Ser Glu Phe Ile Ile Gly His Ser Leu Ser His Tyr His
            485   490   495

Lys Asn Gly Lys Lys Pro Ala Pro Asn Ile Leu Asn Val Phe Asp Ile
            500   505   510

Leu Glu Asp Ser Ser Ser Phe Ile Glu Val Met Glu Phe Cys Pro Ala
        515   520   525

Gly Asp Leu Tyr Gly Met Leu Val Gly Lys Ser Lys Leu Lys Gly Arg
    530   535   540

Leu His Pro Leu Glu Ala Asp Cys Phe Met Lys Gln Leu Leu His Gly
545   550   555   560

Val Lys Phe Met His Asp His Gly Ile Ala His Cys Asp Leu Lys Pro
            565   570   575

Glu Asn Ile Leu Phe Tyr Pro His Gly Leu Leu Lys Ile Cys Asp Phe
            580   585   590

Gly Thr Ser Ser Val Phe Gln Thr Ala Trp Glu Arg Arg Val His Ala
        595   600   605

Gln Lys Gly Ile Ile Gly Ser Glu Pro Tyr Val Ala Pro Glu Glu Phe
    610   615   620

Val Asp Gly Glu Tyr Tyr Asp Pro Arg Leu Ile Asp Cys Trp Ser Cys
625   630   635   640

Gly Val Val Tyr Ile Thr Met Ile Leu Gly His Tyr Leu Trp Lys Val
            645   650   655

Ala Ser Arg Glu Lys Asp Met Ser Tyr Asp Glu Phe Tyr Lys Glu Met
        660   665   670

Gln Arg Lys Asn Gln Phe Arg Val Phe Glu Glu Leu Lys His Val Asn
    675   680   685

Ser Glu Leu Ala Thr Asn Arg Lys Ile Ala Leu Tyr Arg Ile Phe Gln
    690   695   700

Trp Glu Pro Arg Lys Arg Ile Ser Val Gly Lys Leu Leu Asp Met Gln
705   710   715   720

```
Trp Met Lys Ser Thr Asn Cys Cys Leu Ile Tyr Asp Ser Thr
            725                 730


<210> 32
<211> 789
<212> PRT
<213> Saccharomyces cerevisiae

<400> 32
Met Ser Ser Leu Thr Arg Leu Leu Gln Glu Lys Arg Lys Asn Glu Thr
 1               5                 10                  15

Ser Asn Ser Ser Pro Arg Thr Ser Ala Asp Thr Leu Thr Thr Thr Pro
                20              25                  30

Glu Ser Gln Ser Leu Asp Leu His Ser Arg Asn Lys Ser Ser Ser His
            35                  40                  45

Ile Gly Ser Val Ser Asn Ser Ser Ser Ser Asp Arg Asn Arg Ala Asn
        50                  55                  60

Val Pro Val Pro Gly Ser Val Thr Thr Val Thr Gln Ile Tyr Ser Glu
 65                  70                  75                  80

Glu Asp Ser Ser Ser Thr Ala Gly Ser Ser Leu Asp Asp Arg Asn Gln
            85                  90                  95

Phe Ser Ser Ser Phe Leu Asn Ala Asn Phe Ala His Thr Ala Ser Phe
            100                 105                 110

Tyr Gly Thr Ser Ala Gln Ser Arg Asp Arg Phe Gly Ser Leu Ile Asn
        115                 120                 125

Asp Gln Gly Thr Ala Gly Leu Ser Ser His Gly Gly Ser Phe Ala Ala
    130                 135                 140

Gln Asn Arg Ile Thr Ser Arg Leu Ser Thr Thr Ser His Thr Ser Gly
145                 150                 155                 160

Arg Ala Ile Pro Ser Leu Ser Ser Ser Ile Pro Tyr Ser Val Pro Asn
                165                 170                 175

Ser Asn Lys Asp Asn Asn Ser Ser Asn Ser Asn Ser Ser Ser Leu Ser
            180                 185                 190

Ser Ser Trp Leu Glu Thr Tyr Ala Gly Gly Met Pro Asn Asn Ile Thr
        195                 200                 205

His Glu Ser Asn Val Ile Ser Ser Pro Lys Val Asp Ser Val Glu Pro
    210                 215                 220

Arg Phe Val Ile Ser Lys Gln Lys Leu Gln Lys Ala Ser Met Asp Ser
225                 230                 235                 240

Asn Asn Ala Asn Ala Thr Gln Ser Arg Ser Ile Ser Arg Ser Gly Ser
            245                 250                 255
```

Phe Ser Ser Gln Leu Gly Asn Phe Phe Phe Ser Lys Asn Ser Lys Glu
        260   265   270

Ser Ser Asn Ser Asn Ser Ala Gly Met Ser Phe Ser Ala Asn Ser Asn
        275   280   285

Gly Pro Ser Pro Asn Ile Lys Asn Pro Asn Val Thr Asn Gly Ser Thr
    290   295   300

Pro Ile Pro Lys Pro Ile Arg Ala Arg Gln Ser Ser Ile Tyr Ser Ala
305   310   315   320

Ser Arg Gln Pro Thr Gly Ser Tyr Thr Asp Asn Phe Tyr Gly Ser Pro
            325   330   335

Ser Ser Val His Asp His Leu Pro Pro Ser Gln Ser Val Pro Arg Ser
            340   345   350

Gln His Ser Ser Ile Gly Asp Leu Lys Arg Phe Phe Lys Lys Ser Ser
        355   360   365

Asn Ser Asn Leu Ser Ser Asn Ser Asn Asn Val Ile Pro Asn Gly Ser
    370   375   380

Pro Leu Ser Ser Gly Ile Ala Val Pro Ser His Ser His Ser Ser Ser
385   390   395   400

His Phe Ala Ala Gly Asn Asn Ser Tyr Ser Thr Ser Tyr Asn Gly Asn
            405   410   415

Gly Asp Thr Ile Tyr Ser His Ser His Gly Gly Ser Gly Ile Pro Phe
        420   425   430

Ser Lys Arg Tyr Ile Lys Thr Gly Ala Asp Leu Gly Ala Gly Ala Gly
        435   440   445

Gly Ser Val Lys Leu Ala Gln Arg Ile Ser Asp Asn Lys Ile Phe Ala
    450   455   460

Val Lys Glu Phe Arg Thr Lys Phe Glu Asn Glu Ser Lys Arg Asp Tyr
465   470   475   480

Val Lys Lys Ile Thr Ser Glu Tyr Cys Ile Gly Thr Thr Leu Asn His
            485   490   495

Pro Asn Ile Ile Glu Thr Ile Glu Ile Val Tyr Glu Asn Asp Arg Ile
        500   505   510

Leu Gln Val Met Glu Tyr Cys Glu Tyr Asp Leu Phe Ala Ile Val Met
        515   520   525

Ser Asn Lys Met Ser Tyr Glu Glu Ile Cys Cys Cys Phe Lys Gln Ile
    530   535   540

Leu Thr Gly Val Gln Tyr Leu His Ser Ile Gly Leu Ala His Arg Asp
545   550   555   560

Leu Lys Leu Asp Asn Cys Val Ile Asn Glu Lys Gly Ile Val Lys Leu
              565   570   575

Ile Asp Phe Gly Ala Ala Val Val Phe Ser Tyr Pro Phe Ser Lys Asn
              580   585   590

Leu Val Glu Ala Ser Gly Ile Val Gly Ser Asp Pro Tyr Leu Ala Pro
          595   600   605

Glu Val Cys Ile Phe Ala Lys Tyr Asp Pro Arg Pro Val Asp Ile Trp
      610   615   620

Ser Ser Ala Ile Ile Phe Ala Cys Met Ile Leu Lys Lys Phe Pro Trp
625   630   635   640

Lys Ile Pro Lys Leu Arg Asp Asn Ser Phe Lys Leu Phe Cys Ser Gly
              645   650   655

Arg Asp Cys Asp Ser Leu Ser Ser Leu Val Thr Arg Thr Pro Asp Pro
              660   665   670

Pro Ser Tyr Asp Glu Ser His Ser Thr Glu Lys Lys Lys Pro Glu Ser
          675   680   685

Ser Ser Asn Asn Val Ser Asp Pro Asn Asn Val Asn Ile Gly Pro Gln
      690   695   700

Arg Leu Leu His Ser Leu Pro Glu Glu Thr Gln His Ile Val Gly Arg
705   710   715   720

Met Ile Asp Leu Ala Pro Ala Cys Arg Gly Asn Ile Glu Glu Ile Met
              725   730   735

Glu Asp Pro Trp Ile Arg Ser Ile Asp Met Cys His Leu Val Glu Asp
              740   745   750

Gly Leu Ser Phe Lys Val Val Arg Gly Glu Asp His His His Thr Gln
          755   760   765

Val Asp Gln Ser Glu Ala His Ile Ala Gly Leu Glu Lys Lys Lys Lys
      770   775   780

Lys Gln Asn Asn Gln
785

<210> 33
<211> 699
<212> PRT
<213> Saccharomyces cerevisiae

<400> 33
Met Ser Leu Ser Arg Ile Leu Arg Tyr Asn Gln Arg Asn Asn Lys Thr
  1   5   10   15

Thr Ala Ser Leu Thr Ala Glu His Ala Tyr Ser Asp Asn Trp Ala Tyr
              20   25   30

Ser Val Ser Leu Gly Asp Pro Thr Ser Val Gly Val Asn Met Ala Ala
        35   40   45

Lys Thr Gly Glu Ala Leu Asn Lys Ser Tyr Asp Ser Val Phe Ser Ser
        50   55   60

Leu Pro Val Ala Asp Ser Val Pro Arg Thr Asp Phe Thr Ala Ser Ser
65   70   75   80

Arg Asp Asp Glu Asn Thr Asp Val Gln Lys Leu Thr Thr Ser Trp Met
            85   90   95

Glu Lys Ile Asp Thr Lys Met Pro Glu Asn Ile Ser Lys Ile Asp Ser
            100   105   110

Asn Ile Ile Ser Ser Pro Met Val Ser Lys Val Glu Ala Arg Phe Ile
        115   120   125

Val Pro Lys Gly Arg Leu Arg Lys Asn Ser Thr Asp Phe Thr Ser Ser
    130   135   140

Phe Ser Asn Ser Leu Ser Leu Pro Lys Ser Tyr Gly Lys Leu Ile Phe
145   150   155   160

Phe Thr Ser Lys Lys Asn Ser Ser Ser Thr Lys Lys Asn Leu Ala Asn
            165   170   175

Asp Ile Ser Asp Asn Lys His Asn Asn Asn Ser Ser Asn Thr Ile Gly
            180   185   190

His Asn Ile Pro Val Thr Thr Ala Thr Ala Thr Cys Asp Glu Ile Ala
        195   200   205

Cys Thr Ser Thr Glu His Glu Tyr Asn Val Tyr Glu Glu Glu Arg Met
    210   215   220

Phe Thr Thr Arg Val Tyr Ser Leu Glu Asp Ser Val Ser Ser Leu Ser
225   230   235   240

Thr Asn Pro Leu Asp Asp Thr Tyr Ser Glu Ala Val Gln Val Asn Thr
            245   250   255

Arg His Ile Glu Asp Thr Glu Ser Thr Ala His Ile Arg Lys His Ser
            260   265   270

Tyr Thr Thr Ser Leu Ser Ser Ile Lys Arg Leu Phe Lys Ile Thr Ser
    275   280   285

Phe Ser Asn Asn Asn Ser Asn Ser Cys Asp His Gln Glu Ser Thr Val
    290   295   300

Ala Asp Asp Cys Ala Ile Ser Ser Ser Leu Lys Glu Thr Thr Ser Ser
305   310   315   320

Pro Val Ser Thr Gly Ser Phe Ser Leu Met Ile Glu Asn Glu Asp Ser
            325   330   335

Asp Arg Asp Gln Ile Ile Gln Ala Leu Tyr Ser Asn Ile Glu Ala Ser
            340   345   350

Thr Asp Leu Val Ser Arg Lys Tyr Arg Asp Leu Asp Val Val Leu Gly
        355   360   365

Glu Gly Ser Gly Gly Lys Val Lys Leu Val Gln Arg Val Leu Asp Asn
        370   375   380

Lys Val Phe Ala Leu Lys Glu Tyr Arg Ser Lys Lys Arg Glu Ser
385   390   395   400

Glu Arg Lys Tyr Ile Lys Asn Ile Ile Ser Glu Tyr Cys Ile Ala Ser
                405   410   415

Thr Leu Lys Asn Pro Asn Ile Cys Glu Thr Leu Glu Ile Leu Tyr Glu
            420   425   430

Lys Gly Lys Ile Phe Gln Ile Leu Glu Tyr Cys Glu Tyr Asp Leu Phe
            435   440   445

Ser Leu Val Met Ser Glu Lys Met His Tyr Glu Glu Ile Cys Cys Leu
    450   455   460

Phe Lys Gln Leu Ile Asn Gly Val Lys Tyr Leu His Asp Ile Gly Leu
465   470   475   480

Ser His Arg Asp Leu Lys Leu Asp Asn Cys Val Val Thr Arg Arg Gly
            485   490   495

Ile Leu Lys Leu Ile Asp Phe Gly Ala Ser Ser Val Phe His Tyr Pro
            500   505   510

Leu Ser Ser Gln Met Ile Glu Ala Asn Gly Ile Val Gly Ser Asp Pro
        515   520   525

Tyr Leu Ser Pro Glu Val Phe Tyr Phe Asn Glu Tyr Asp Pro Arg Ala
    530   535   540

Leu Asp Val Trp Ser Val Gly Ile Ile Phe Phe Cys Met Ile Thr Arg
545   550   555   560

Arg Phe Pro Trp Lys Tyr Pro Lys Val Lys Asp Val Gln Phe Lys Ala
                565   570   575

Phe Cys Ser Gly Arg Gly Val Ser Ser Phe Lys Asp Leu Val Thr Arg
            580   585   590

Pro Ala Thr Asp Asp Ser Asn Asn Tyr Asp Asn Asp Gly Tyr Glu Glu
        595   600   605

Gly Val Ile Asp Met Gly Pro Asn Phe Ile Leu His Arg Leu Pro Glu
    610   615   620

Glu Thr His Lys Ile Met Arg Arg Ile Leu Glu Val Ser Pro Phe Arg
625   630   635   640

Arg Ile Thr Ile Asn Gly Ile Leu Gln Asp Gly Trp Ile Lys Glu Ile
              645   650   655

Glu Thr Cys Gln Val Val Gly Ala Ala Ser Pro Asn Glu Ala Ser Leu
              660   665   670

Arg Ile Ile Asn Lys Gly Asn His Ile His Thr Asn Ile Asp Gln Arg
              675   680   685

Tyr Ala His Ile Gly Gly Leu His Gln Arg Thr
      690   695

<210> 34
<211> 560
<212> PRT
<213> Saccharomyces cerevisiae

<400> 34
Met Thr Val Ser His Asn His Ser Thr Lys Ile Ser Gln Gln Pro Ile
  1   5   10   15

Ser Ser Val Ser Ala Phe Lys Phe Phe Gly Lys Lys Leu Leu Ser Ser
              20   25   30

Ser His Gly Asn Lys Leu Lys Lys Lys Ala Ser Leu Pro Pro Asp Phe
          35   40   45

His Ser Thr Ser Thr Asn Asp Ser Glu Ser Ser Ser Pro Lys Leu Pro
      50   55   60

Asn Ser Leu Lys Thr Ser Arg Arg Ala Asn Ser Phe Ala His Thr Thr
 65   70   75   80

Asn Ser Lys Arg Ser Leu Ser Ser Ala Ser Thr Lys Ile Leu Pro Pro
              85   90   95

Ala Gly Ser Ser Thr Ser Ile Ser Arg Gly Asn Arg His Ser Ser Thr
              100   105   110

Ser Arg Asn Leu Ser Asn Ser Lys Phe Ser Ser Glu Arg Leu Val Tyr
          115   120   125

Asn Pro Tyr Gly Val Ser Thr Pro Ser Thr Ser Leu Ser Ser Val Ser
      130   135   140

Thr Ser Met Lys Lys Asp Pro Asp Leu Gly Phe Tyr Leu His Asp Gly
145   150   155   160

Asp Ser Lys Ile Arg Met Leu Pro Ile Pro Ile Val Asp Pro Asn Glu
              165   170   175

Tyr Leu Pro Asp Glu Met Lys Glu Ala Ser Ile Gln Leu Ser Asp Asn
          180   185   190

Phe Val Phe Asp Asp Glu Asn Lys Thr Ile Gly Trp Gly Gly Ser Cys
          195   200   205

Glu Val Arg Lys Ile Arg Ser Lys Tyr Arg Lys Lys Asp Val Phe Ala
210   215   220

Leu Lys Lys Leu Asn Met Ile Tyr Asn Glu Thr Pro Glu Lys Phe Tyr
225   230   235   240

Asn Ala Ala Pro Lys Glu Phe Ile Ile Ala Lys Gln Leu Ser His His
              245   250   255

Val His Ile Thr Asn Thr Phe Leu Leu Val Lys Val Pro Thr Thr Val
              260   265   270

Tyr Thr Thr Arg Gly Trp Gly Phe Val Met Glu Leu Gly Leu Arg Asp
          275   280   285

Leu Phe Ala Met Ile Gln Lys Ser Gly Trp Arg His Val Ala Leu Ala
          290   295   300

Glu Lys Phe Cys Ile Phe Lys Gln Val Ala Cys Gly Val Lys Phe Cys
305   310   315   320

His Asp Gln Gly Ile Ala His Arg Asp Leu Lys Pro Glu Asn Val Leu
              325   330   335

Leu Ser Pro Asp Gly Val Cys Lys Leu Thr Asp Phe Gly Ile Ser Asp
              340   345   350

Trp Tyr His His Gly Ser Thr Arg Pro Val Gln Pro Cys Gln Glu Val
          355   360   365

Arg Arg Asp Asp Arg Leu Ala Pro Tyr Ala Pro Pro Glu Val Met Phe
    370   375   380

Tyr Asp Ser Lys Lys His Tyr Asp Thr Glu Leu Gln Gln Pro Tyr Asp
385   390   395   400

Pro Arg Ala Leu Asp Cys Tyr Gly Leu Gly Ile Ile Leu Met Thr Leu
              405   410   415

Val Asn Asn Val Ile Pro Phe Leu Glu Ser Cys Ser Phe Asp Thr Gly
              420   425   430

Phe Arg Asp Tyr Cys Asp Ala Tyr Glu Asn Phe Ile Arg Leu His Asp
    435   440   445

Arg Ala Phe Arg Asn Arg Ala Ile Thr Ala Arg Gly Arg Glu Trp Ser
    450   455   460

Ile Thr Trp Leu Glu Ile Ser Arg Thr Asp Met His Leu Ala Trp His
465   470   475   480

Gly Gly Ser Leu Thr Gln Lys Pro Pro Pro Ala Thr Pro Ser Thr Thr
              485   490   495

Ser Ser Lys Thr His Gly Ser Lys Glu Leu Arg Leu Val Leu Met Pro
              500   505   510

```
Thr Thr Asn Met Cys Val Arg Asn Leu Leu Ser Lys Pro Leu Arg Thr
        515             520             525
```

```
Arg Ile Arg Gly Val Ser Ile Ser Leu Gln Met Leu Leu Gln Pro His
    530             535             540
```

```
Pro Pro Gln Thr His Ser Leu Arg Thr Glu Ser Pro Ser Gly Gln Trp
545             550             555             560
```

```
<210> 35
<211> 818
<212> PRT
<213> Saccharomyces cerevisiae
```

```
<400> 35
Met Ala Gly Asn Gly Lys Asp Lys Glu Val Asp Lys Ser Pro Ser Val
 1               5               10              15
```

```
Ser Thr Leu Lys Leu Leu Gly Lys Arg Leu Phe Asn Ser Ser Ser His
            20              25              30
```

```
Thr Asp Asn Ser Ser Leu Leu Leu Ser Ala Glu Gln Leu Gly Asn Gly
        35              40              45
```

```
Arg Ser Leu Arg Lys Arg Pro Thr Ser Pro Ser Ile Ser Gly Ser Gly
    50              55              60
```

```
Ser Gly Gly Asn Ser Pro Ser Ser Ser Ala Gly Ala Arg Gln Arg Ser
65              70              75              80
```

```
Ala Ser Leu His Arg Arg Lys Asn Asn Ala Ser Val Gly Phe Ser Asn
            85              90              95
```

```
Gly Ser Val Ser Ser His Lys Ser Ser Val Ala Leu Gln Asp Leu Ile
            100             105             110
```

```
Lys His Asn Asn Asn Pro Tyr Leu Asn Ser Pro Ser Asp Ile Leu Gly
        115             120             125
```

```
Thr Gly Thr Gly Ile Ala Ser Thr Arg Asp Arg Asp Arg Ala Val Leu
    130             135             140
```

```
Asp Arg Glu Lys Glu Lys Glu Arg Ala Arg Asn Lys Glu Arg Asn Thr
145             150             155             160
```

```
His His Ala Gly Leu Pro Gln Arg Ser Asn Ser Met Ala Ser His His
            165             170             175
```

```
Phe Pro Asn Glu Asn Ile Val Tyr Asn Pro Tyr Gly Ile Ser Pro Asn
        180             185             190
```

```
His Ala Arg Pro Asp Thr Ala Phe Ala Asp Thr Leu Asn Thr Asn Lys
        195             200             205
```

```
Glu Asn Asp Leu Ser Phe Tyr Met His Asp Gly Asn Ser Lys Ile Arg
    210             215             220
```

```
Met Leu Pro Leu Pro Ile Ala Asn Pro Asn Asp Phe Leu Pro Glu Asp
225             230             235                 240

Met Lys Gln Tyr Ser Val His Leu Thr Asp Asn Phe Val Phe Asp Thr
            245             250                 255

Asp Asn Lys Pro Ile Gly Ser Gly Gly Ser Ser Glu Val Arg Lys Val
            260             265                 270

Lys Ser Ser Tyr Arg Gln Lys Asp Val Tyr Ala Leu Lys Lys Leu Asn
        275             280             285

Met Ile Tyr His Glu Ser Pro Glu Lys Phe Tyr Lys Arg Cys Ser Lys
    290             295             300

Glu Phe Ile Ile Ala Lys His Leu Ser His Asn Val His Ile Thr Asn
305             310             315                 320

Thr Phe Tyr Leu Leu Lys Val Pro Thr Thr Thr Tyr Thr Thr Arg Gly
            325             330             335

Trp Gly Phe Ile Met Glu Leu Gly Val Lys Asp Leu Phe Gln Leu Met
        340             345             350

Glu Arg Thr Gly Trp Lys Asn Val Pro Phe Asn Glu Lys Tyr Cys Leu
    355             360             365

Phe Lys Gln Val Ala Gln Gly Ile Lys Phe Cys His Asp Asn Gly Ile
    370             375             380

Ala His Arg Asp Leu Lys Pro Glu Asn Val Leu Ile Ser Lys Glu Gly
385             390             395                 400

Ile Cys Lys Leu Thr Asp Phe Gly Ile Ser Asp Trp Tyr His Val Ile
            405             410             415

Pro His Asp Tyr Thr Ser Pro Val Lys Thr Cys Gln Gly Met Ile Gly
            420             425             430

Ser Pro Pro Tyr Thr Pro Pro Glu Val Met Tyr Phe Asp Ala Lys Lys
        435             440             445

His Tyr Pro Glu Lys Phe Gln Lys Pro Tyr Asn Pro Leu Ala Met Asp
    450             455             460

Ser Tyr Ala Leu Gly Ile Met Leu Ile Thr Met Ile Asn Asn Ile Ile
465             470             475                 480

Pro Phe Ile Asp Ser Cys Asn Thr Asp Ala Arg Phe Arg Glu Phe Glu
            485             490             495

Val Ser Tyr Asp Asn Phe Ile Asn His Gln Asn Pro His Phe Arg Asp
            500             505             510

Lys Gly Cys His Lys Pro Gly Pro Gly Ser Glu Tyr Ser Leu Ala Arg
        515             520             525
```

Asn Phe Lys Asn Thr Asp Ala Thr Arg Ile Ala Trp Arg Leu Ala Asp
    530   535   540

Pro Asn Pro Ala Thr Arg Tyr Thr Met Asp Asp Leu Phe Asn Asp Pro
545   550   555   560

Phe Phe Gln Gln Ile Glu Thr Cys Val Glu Pro Asn Asp Asp Asp Leu
        565   570   575

Val Arg Val Pro Glu Leu Arg Lys Ser Thr Ser Thr Asn Asp Phe Ser
        580   585   590

Glu Asn Ser Leu Asp Ala Pro His Asp Gln Glu Val Ile His Thr Ser
    595   600   605

Asn Pro Phe Leu Lys Lys Glu Thr Leu Thr Ser Lys Pro Arg Ser Met
    610   615   620

Leu Glu Ile Ala Glu Ser Pro Ser Leu Lys Gln Lys Ser Lys Val Lys
625   630   635   640

Asp Ser Ala Lys Thr Lys Thr His Asp Val Gly Asp Glu Gly Gly Asn
            645   650   655

Glu Ser Thr Lys Pro Lys Gln Gln Asp Lys Lys Glu Asn Leu Lys Lys
        660   665   670

Asp Glu Val Lys Asn Gly Asp Lys Asp Lys Val Ile Glu Glu Ala Thr
        675   680   685

Thr Thr Asn Val Asp Ser Ile Leu Glu Lys Pro Thr Pro Thr Ser Thr
    690   695   700

Lys Val Glu Asp Asn Leu Ser Glu Asp Asp Ser Thr Met Lys Glu Leu
705   710   715   720

Lys Ser Met Leu Asn Ser Thr Pro Thr Thr Pro Thr His Asn Gly Pro
            725   730   735

Thr Pro Leu Pro Ala Lys Ala Gly Thr Gln Leu Asp Lys Arg Met Ser
        740   745   750

Asp Leu Ser Leu Lys Ser Glu Thr Pro Ala Ser Thr Lys Asn Phe Ser
        755   760   765

Ala Pro Asn Val Ser Ser Ser Ser Asn Ser Leu Arg Ser Leu Gly Ser
    770   775   780

Pro Ser Val Ser Ser Ser Lys Lys Lys Lys Val Ile His His His Leu
785   790   795   800

Asp Ile Thr Asn Ser Val Thr Asn Met Ser Ser Val Ser Ala Phe Ile
            805   810   815

Ser Arg

<210> 36
<211> 603
<212> PRT
<213> Saccharomyces cerevisiae

<400> 36
Met Thr Gly Met Asn Asp Asn Asn Ala Ala Ile Pro Gln Gln Thr Pro
 1   5   10   15

Arg Lys His Ala Leu Ser Ser Lys Val Met Gln Leu Phe Arg Ser Gly
            20   25   30

Ser Arg Ser Ser Arg Gln Gly Lys Ala Ser Ser Asn Ile Gln Pro Pro
        35   40   45

Ser Asn Ile Asn Thr Asn Val Pro Ser Ala Ser Lys Ser Ala Lys Phe
    50   55   60

Gly Leu His Thr Pro Thr Thr Ala Thr Pro Arg Val Val Ser Asn Pro
65   70   75   80

Ser Asn Thr Ala Gly Val Ser Lys Pro Gly Met Tyr Met Pro Glu Tyr
                85   90   95

Tyr Gln Ser Ala Ser Pro Ser His Ser Ser Ser Ser Ala Ser Leu Asn
            100   105   110

Asn His Ile Asp Ile Asn Thr Ser Lys Ser Ser Ser Ala Ala Ser Leu
        115   120   125

Thr Ser Ser Val Ser Ala Leu Ser Leu Ser Pro Thr Ser Ala Ile Asn
    130   135   140

Ile Ser Ser Lys Ser Leu Ser Pro Lys Phe Ser His His Ser Asn Ser
145   150   155   160

Asn Thr Ala Ile Thr Pro Ala Pro Thr Pro Thr Ala Ser Asn Ile Asn
            165   170   175

Asn Val Asn Lys Ile Thr Asn Thr Ser Ala Pro Ile Cys Gly Arg Phe
            180   185   190

Leu Val His Lys Asp Gly Thr His Glu His His Leu Lys Asn Ala Lys
        195   200   205

Arg Gln Glu Lys Leu Ser Thr Met Ile Lys Asn Met Val Gly Ala Ser
    210   215   220

Lys Leu Arg Gly Glu Ala Lys Ser Ala Val Pro Asp Ile Ile Met Asp
225   230   235   240

Pro Lys Thr Thr Leu Lys Ser Asn Lys Asn Pro Pro Thr Leu Phe Ala
            245   250   255

Gly Phe Met Lys Gln Val Val Asp Met Asp Asp Lys Tyr Pro Glu Gly
            260   265   270

```
Ala Pro Thr Ser Gly Ala Leu Asn Cys Pro Glu Arg Asp Ile Tyr Arg
        275                 280                 285

Ser Asp Gln Lys Asp Ser Lys Asn Asn Thr His Asn Ile Thr Thr Thr
        290                 295                 300

Lys Lys Asp Arg Gln Cys Phe Ala Glu Lys Tyr Gly Arg Cys Gln Glu
305                 310                 315                 320

Val Leu Gly Lys Gly Ala Phe Gly Val Val Arg Ile Cys Gln Lys Lys
                325                 330                 335

Asn Val Ser Ser Gln Asp Gly Asn Lys Ser Glu Lys Leu Tyr Ala Val
                340                 345                 350

Lys Glu Phe Lys Arg Arg Thr Ser Glu Ser Ala Glu Lys Tyr Ser Lys
        355                 360                 365

Arg Leu Thr Ser Glu Phe Cys Ile Ser Ser Ser Leu His His Thr Asn
    370                 375                 380

Ile Val Thr Thr Leu Asp Leu Phe Gln Asp Ala Lys Gly Glu Tyr Cys
385                 390                 395                 400

Glu Val Met Glu Tyr Cys Ala Gly Gly Asp Leu Phe Thr Leu Val Val
                405                 410                 415

Ala Ala Gly Lys Leu Glu Tyr Met Glu Ala Asp Cys Phe Phe Lys Gln
                420                 425                 430

Leu Ile Arg Gly Val Val Tyr Met His Glu Met Gly Val Cys His Arg
        435                 440                 445

Asp Leu Lys Pro Glu Asn Leu Leu Leu Thr His Asp Gly Val Leu Lys
    450         ,       455                 460

Ile Thr Asp Phe Gly Asn Ser Glu Cys Phe Lys Met Ala Trp Glu Lys
465                 470         `       475                 480

Asn Ile His Leu Ser Gly Gly Val Cys Gly Ser Ser Pro Tyr Ile Ala
                485                 490                 495

Pro Glu Glu Tyr Ile Lys Glu Glu Phe Asp Pro Arg Pro Val Asp Ile
                500                 505                 510

Trp Ala Cys Gly Val Ile Tyr Met Ala Met Arg Thr Gly Arg Gln Leu
        515                 520                 525

Trp Ser Ser Ala Glu Lys Asp Asp Pro Phe Tyr Met Asn Tyr Leu Lys
        530                 535                 540

Gly Arg Lys Glu Lys Gly Gly Tyr Glu Pro Ile Glu Ser Leu Lys Arg
545                 550                 555                 560

Ala Arg Cys Arg Asn Val Ile Tyr Ser Met Leu Asp Pro Val Pro Tyr
                565                 570                 575
```

Arg Arg Ile Asn Gly Lys Gln Ile Leu Asn Ser Glu Trp Gly Arg Glu
        580   585   590

Ile Lys Cys Cys His Asn Gly Arg Ala Leu Lys
        595   600

<210> 37
<211> 620
<212> PRT
<213> Saccharomyces cerevisiae

<400> 37
Met Val Lys Glu Thr Pro Leu His Ser Ser Ser Ser Thr Ser Leu Ser
  1   5   10   15

Ser Leu Phe Arg Pro Thr Lys Leu Lys Asn Leu Ser Ala Lys Ile Phe
            20   25   30

Asn Gly Gly Gly Asn Gln Ser Tyr Ser Lys Thr Asp Asp Val Ser Arg
            35   40   45

Ser Ser Ser Arg Ser Ser Lys Lys Asn Thr Asp Ser Asp Gln Glu Asp
        50   55   60

Gln Ile Lys Tyr Asn Lys Pro Asn Asp Arg Arg Ser Thr Ile Gly Lys
 65   70   75   80

Ser Pro Gln Gly Asn Gly Ala Leu Ser Lys Glu Ser His Val Val Ala
                85   90   95

Ser Ser Thr Leu Thr Gly Ile Ser Pro Thr Ser Ala Lys Lys Ala Pro
            100   105   110

Ile Asp Tyr Ser Pro Ser Arg Pro Leu Pro Asn Asn His Asn Pro Val
            115   120   125

Arg Thr Gly His Thr Val Pro His Leu Pro His Ser Ile His Asn Pro
    130   135   140

Ile Asn Tyr Ile His Gln Gly Ser Lys Asp Ala Phe His His Pro His
145   150   155   160

Pro Val Arg Ser Thr Ala His Ser Asn Ile Ser Thr Val Ser Ser Ala
                165   170   175

Lys Ser Asp Thr Pro Ser Ser Asn Leu Ser Tyr Gln Ala His Met His
            180   185   190

Pro Val Glu Ile Leu Gln Lys Gln Ile Glu Asp Lys His Phe Met Asp
            195   200   205

Ser Gln Ala Ser Thr Pro Gly Ser Val Glu Leu Gln His Asn Ser Ser
    210   215   220

Ser Gly Ser Asp Asp Thr Ser Ser Arg Lys Lys Lys Ser Leu Arg Leu
225   230   235   240

Thr Arg Phe Phe Lys Lys Ile His Asn Asp Tyr His Asp Asn His His
                245   250   255

His His His His His Asn Arg Gly Ser Thr Pro Thr Lys Pro Lys Leu
            260   265   270

Asn Leu Asn Thr Asn Glu Asn Ile Val Glu Ser Asn Gly Lys Ala Leu
        275   280   285

Tyr Glu Thr Asp Asn Pro Val Glu Leu Leu Glu Lys Tyr Gly Ile Pro
    290   295   300

Gly Arg Lys Leu Gly Glu Gly Ala Ser Gly Ser Val Ser Val Val Glu
305   310   315   320

Arg Thr Asp Gly Lys Leu Phe Ala Cys Lys Met Phe Arg Lys Pro His
            325   330   335

Leu Asn Asn Glu Gly Thr Asn Gln Ser Gln Leu Ala Asn Tyr Ser Lys
        340   345   350

Lys Val Thr Thr Glu Phe Cys Ile Gly Ser Thr Leu His His Glu Asn
        355   360   365

Ile Val Glu Thr Leu Asp Met Leu Thr Glu Gly Asp Thr Tyr Leu Leu
    370   375   380

Val Met Glu Tyr Ala Pro Tyr Asp Phe Phe Asn Leu Val Met Ser Asn
385   390   395   400

Leu Met Thr Gln Asp Glu Val Asn Cys Tyr Phe Lys Gln Leu Cys His
            405   410   415

Gly Val Asn Tyr Leu His Ser Met Gly Leu Ala His Arg Asp Leu Lys
            420   425   430

Leu Asp Asn Cys Val Val Thr Lys Asp Gly Ile Leu Lys Leu Ile Asp
        435   440   445

Phe Gly Ser Ala Val Val Phe Gln Tyr Pro Tyr Glu Asp Thr Ile Val
    450   455   460

Lys Ser His Gly Ile Val Gly Ser Asp Pro Tyr Leu Ala Pro Glu Leu
465   470   475   480

Leu Lys Gln Thr Ser Tyr Asp Pro Arg Val Ala Asp Val Trp Ser Ile
            485   490   495

Ala Ile Ile Phe Tyr Cys Met Val Leu Lys Arg Phe Pro Trp Lys Ala
            500   505   510

Pro Lys Lys Ser Phe Asn Ser Phe Arg Leu Phe Thr Glu Glu Pro Glu
        515   520   525

Asp Glu Asp Asp Ile Val Arg Gly Pro Asn Lys Ile Leu Arg Leu Leu
    530   535   540

Pro Arg His Ser Arg Thr Ile Ile Gly Arg Met Leu Ala Leu Glu Pro
545   550   555   560

Lys Gln Arg Val Leu Met Asn Asp Val Val Lys Asp Asp Trp Leu Val
                565   570   575

Ser Val Pro Ser Cys Glu Val Asp Pro Thr Ser Gly Asp Leu Val Glu
                580   585   590

Lys Pro Lys Asn His Lys His His Leu Val Thr Glu Glu Glu Leu Asn
            595   600   605

Glu Leu Thr Lys Gln His Gly Asn Lys Asp Ser Asn
    610   615   620

<210> 38
<211> 759
<212> PRT
<213> Saccharomyces cerevisiae

<400> 38
Met Pro Asn Leu Leu Ser Arg Asn Pro Phe His Gly His His Asn Asp
 1   5   10   15

His His His Asp Arg Glu Asn Ser Ser Asn Asn Pro Pro Gln Leu Ile
            20   25   30

Arg Ser Ser Lys Ser Phe Leu Asn Phe Ile Gly Arg Lys Gln Ser Asn
            35   40   45

Asp Ser Leu Arg Ser Glu Lys Ser Thr Asp Ser Met Lys Ser Thr Thr
    50   55   60

Thr Thr Thr Asn Tyr Thr Thr Thr Asn Leu Asn Asn Asn Thr His Ser
 65   70   75   80

His Ser Asn Ala Thr Ser Ile Ser Thr Asn Asn Tyr Asn Asn Asn Tyr
                85   90   95

Glu Thr Asn His His His Asn Ile Ser His Gly Leu His Asp Tyr Thr
            100   105   110

Ser Pro Ala Ser Pro Lys Gln Thr His Ser Met Ala Glu Leu Lys Arg
            115   120   125

Phe Phe Arg Pro Ser Val Asn Lys Lys Leu Ser Met Ser Gln Leu Arg
    130   135   140

Ser Lys Lys His Ser Thr His Ser Pro Pro Pro Ser Lys Ser Thr Ser
145   150   155   160

Thr Val Asn Leu Asn Asn His Tyr Arg Ala Gln His Pro His Gly Phe
                165   170   175

Thr Asp His Tyr Ala His Thr Gln Ser Ala Ile Pro Pro Ser Thr Asp
            180   185   190

Ser Ile Leu Ser Leu Ser Asn Asn Ile Asn Ile Tyr His Asp Asp Cys
        195   200   205

Ile Leu Ala Gln Lys Tyr Gly Lys Leu Gly Lys Leu Leu Gly Ser Gly
    210   215   220

Ala Gly Gly Ser Val Lys Val Leu Val Arg Pro Thr Asp Gly Ala Thr
225   230   235   240

Phe Ala Val Lys Glu Phe Arg Pro Arg Lys Pro Asn Glu Ser Val Lys
            245   250   255

Glu Tyr Ala Lys Lys Cys Thr Ala Glu Phe Cys Ile Gly Ser Thr Leu
        260   265   270

His His Pro Asn Val Ile Glu Thr Val Asp Val Phe Ser Asp Ser Lys
        275   280   285

Gln Asn Lys Tyr Tyr Glu Val Met Glu Tyr Cys Pro Ile Asp Phe Phe
    290   295   300

Ala Val Val Met Thr Gly Lys Met Ser Arg Gly Glu Ile Asn Cys Cys
305   310   315   320

Leu Lys Gln Leu Thr Glu Gly Val Lys Tyr Leu His Ser Met Gly Leu
            325   330   335

Ala His Arg Asp Leu Lys Leu Asp Asn Cys Val Met Thr Ser Gln Gly
        340   345   350

Ile Leu Lys Leu Ile Asp Phe Gly Ser Ala Val Val Phe Arg Tyr Pro
        355   360   365

Phe Glu Asp Gly Val Thr Met Ala His Gly Ile Val Gly Ser Asp Pro
    370   375   380

Tyr Leu Ala Pro Glu Val Ile Thr Ser Thr Lys Ser Tyr Asp Pro Gln
385   390   395   400

Cys Val Asp Ile Trp Ser Ile Gly Ile Ile Tyr Cys Cys Met Val Leu
            405   410   415

Lys Arg Phe Pro Trp Lys Ala Pro Arg Asp Ser Asp Asp Asn Phe Arg
            420   425   430

Leu Tyr Cys Met Pro Asp Asp Ile Glu His Asp Tyr Val Glu Ser Ala
        435   440   445

Arg His His Glu Glu Leu Leu Lys Glu Arg Lys Glu Lys Arg Gln Arg
    450   455   460

Phe Leu Asn His Ser Asp Cys Ser Ala Ile Asn Gln Gln Gln Pro Ala
465   470   475   480

His Glu Ser Asn Leu Lys Thr Val Gln Asn Gln Val Pro Asn Thr Pro
            485   490   495

```
Ala Ser Ile Gln Gly Lys Ser Asp Asn Lys Pro Asp Ile Val Glu Glu
            500             505         510

Glu Thr Glu Glu Asn Lys Glu Asp Asp Ser Asn Asn Asp Lys Glu Ser
            515             520         525

Thr Pro Asp Asn Asp Lys Glu Ser Thr Ile Asp Ile Lys Ile Ser Lys
        530             535         540

Asn Glu Asn Lys Ser Thr Val Val Ser Ala Asn Pro Lys Lys Val Asp
545             550             555             560

Ala Asp Ala Asp Ala Asp Cys Asp Ala Asn Gly Asp Ser Asn Gly Arg
            565             570         575

Val Asp Cys Lys Ala Asn Ser Asp Cys Asn Asp Lys Thr Asp Cys Asn
        580             585         590

Ala Asn Asn Asp Cys Ser Asn Glu Ser Asp Cys Asn Ala Lys Val Asp
    595             600             605

Thr Asn Val Asn Thr Ala Ala Asn Ala Asn Pro Asp Met Val Pro Gln
    610             615             620

Asn Asn Pro Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln
625             630             635             640

Gln Gln Gln Gln Gln Gln Gln His His His His Gln His Gln Asn Gln
            645             650             655

Asp Lys Ala His Ser Ile Ala Ser Asp Asn Lys Ser Ser Gln Gln His
            660             665             670

Arg Gly Pro His His Lys Lys Ile Ile His Gly Pro Tyr Arg Leu Leu
        675             680             685

Arg Leu Leu Pro His Ala Ser Arg Pro Ile Met Ser Arg Ile Leu Gln
    690             695             700

Val Asp Pro Lys Lys Arg Ala Thr Leu Asp Asp Ile Phe Asn Asp Glu
705             710             715             720

Trp Phe Ala Ala Ile Ala Ala Cys Thr Met Asp Ser Lys Asn Lys Val
            725             730             735

Ile Arg Ala Pro Gly His His His Thr Leu Val Arg Glu Glu Asn Ala
        740             745             750

His Leu Glu Thr Tyr Lys Val
        755
```

<210> 39
<211> 636
<212> PRT
<213> Schizosaccharomyces pombe

<400> 39

```
Met Gly Glu Lys Asp Lys Leu His Glu Ile Ser Ser Lys Phe Ala Ser
 1               5                  10                  15

Leu Gly Leu Gly Ser Leu Lys Ser Thr Pro Lys Ala Arg Glu Thr Thr
            20                  25                  30

Glu Pro Pro Pro Pro Ser Ser Gln Gln Pro Pro Ser Thr Pro Asn Gly
        35                  40                  45

Lys Glu Ala Ala Ser Pro Ser Ala Leu Lys Gln Asn Val Arg Pro Ser
    50                  55                  60

Leu Asn Ser Val Gln Gln Thr Pro Ala Ser Ile Asp Ala Val Ala Ser
65                  70                  75                      80

Ser Ser Asn Val Ser Leu Gln Ser Gln Gln Pro Leu Ser Lys Pro Val
            85                  90                  95

Val Ser Ser Lys Pro Asn Gln Thr Thr Ala Met Pro Pro Pro Ser Asn
            100                 105                 110

Asn Pro Ser Arg His Val Ser Ser Thr Ser Asn Lys Pro Ala Ala Val
        115                 120                 125

Ser Pro Asn Pro Ala Ala His His Ala Glu Leu Pro Ser Gly Ser Val
    130                 135                 140

Pro Pro Ser Ala Ser Val Ser Arg Ala Asn Ser Thr Ala Thr Thr Thr
145                 150                 155                 160

Pro His Lys Ala Gly Val Val Ser Asn Pro Ala Ala Ala Asn Val His
            165                 170                 175

Val Leu Ser Val Ala Ala Ser Pro Asn Pro Ser Thr Pro Ser Asn Gly
            180                 185                 190

Pro Ala Pro Val Ser Thr Thr Ala Thr Pro Ser Arg Asn Pro Val Thr
        195                 200                 205

Arg Leu Gln Arg Ile Phe Ser Gln Asn Ser Val Ser Arg Gln Asn Ser
    210                 215                 220

Arg Thr Gly Arg Gly Ala Ala Val Ala Asn Thr Glu Glu Thr Asn Ser
225                 230                 235                 240

Thr Gly Gly Ser Glu Thr Gly Gly Ala Ala Asn Ser Ser Ser Thr Ser
            245                 250                 255

Asn Pro Ser Ser Ala Lys Trp Ser Arg Phe Thr Val Tyr Asp Asp Ala
        260                 265                 270

Ser His Thr His Gln Leu Arg Pro Ala Arg Arg Gln Glu Lys Leu Gly
    275                 280                 285

Lys Met Leu Lys Asp Phe Leu Ala Gly Asn Ser Lys Lys Arg Glu Glu
    290                 295                 300
```

Glu Arg Ile Ala Lys Glu Ala Ala Asp Ala Gln His Gln Leu Ser Leu
305   310   315   320

Val Gln Ser Trp Ile Asn Gly Tyr Gly Gln Glu Lys Leu Ala Asp Lys
                325   330   335

Lys Asp Pro Ala Lys Val Ser Ala Ser Phe Val Glu Lys Tyr Gly Arg
            340   345   350

Cys Gln Glu Val Ile Gly Arg Gly Ala Phe Gly Val Val Arg Ile Ala
        355   360   365

His Lys Val Asp Pro Gln Asn Ser Gly Ser Glu Thr Leu Tyr Ala Val
    370   375   380

Lys Glu Phe Arg Arg Lys Pro Ala Glu Ser Gln Lys Lys Tyr Thr Lys
385   390   395   400

Arg Leu Thr Ser Glu Phe Cys Ile Ser Ser Ser Leu Arg His Pro Asn
            405   410   415

Val Ile His Thr Leu Asp Leu Ile Gln Asp Gly Lys Gly Asp Tyr Cys
        420   425   430

Glu Val Met Glu Leu Cys Ser Gly Gly Asp Leu Tyr Thr Leu Ile Met
    435   440   445

Ala Ala Gly Arg Leu Glu Pro Met Glu Ala Asp Cys Phe Phe Lys Gln
    450   455   460

Leu Met Arg Gly Val Asp Tyr Leu His Asp Met Gly Val Ala His Arg
465   470   475   480

Asp Leu Lys Pro Glu Asn Leu Leu Leu Thr Val Ser Gly Ser Leu Lys
            485   490   495

Ile Thr Asp Phe Gly Asn Gly Glu Cys Phe Arg Met Ala Trp Glu Lys
            500   505   510

Glu Ala His Met Thr Cys Gly Leu Cys Gly Ser Ala Pro Tyr Ile Ala
    515   520   525

Pro Glu Glu Tyr Thr Glu Ser Glu Phe Asp Pro Arg Ala Val Asp Val
    530   535   540

Trp Ala Cys Gly Val Ile Tyr Met Ala Met Arg Thr Gly Arg His Leu
545   550   555   560

Trp Arg Val Ala Lys Lys Ser Glu Asp Glu Tyr Tyr Ser Arg Tyr Leu
            565   570   575

Met Asp Arg Lys Asn Glu Ser Gly Tyr Glu Pro Ile Glu Met Leu Glu
            580   585   590

Arg Ser Arg Cys Arg Asn Thr Leu Tyr Asn Ile Leu His Pro Asn Pro
            595   600   605

```
Thr Tyr Arg Leu Thr Ala Lys Gln Ile Met Lys Ser Glu Trp Val Arg
    610                 615                 620

Ser Ile Thr Leu Cys Glu Ala Gly Asn Ala Gly Leu
625                 630                 635


<210> 40
<211> 650
<212> PRT
<213> Schizosaccharomyces pombe

<400> 40
Met Ser Val Thr Pro Pro Asn Val Gln Phe Asn Leu Asn Gly Asp Ser
  1               5                  10                  15

Asp His Lys Ser Asp Asn Ser Ser Ser Leu Glu Asn Lys Leu Asp
            20                  25                  30

Thr Glu Leu Lys Ile Thr Ser Pro Pro Arg Asn Pro Pro Gln Arg Leu
        35                  40                  45

His Pro Val Asp Phe Ser Glu His Ala Asp Thr Asp Asp Asp Met Asn
    50                  55                  60

His Pro Leu Pro Arg Val Gln Ser Pro Val His Ile Lys Asn His Ile
65                  70                  75                  80

Asp Pro Lys Leu Ala Glu Asp Arg Tyr Arg Ser Ser Ala Ala Arg His
                85                  90                  95

Phe Glu Pro Ile Ser Ile Pro Pro Ser Ala Ile Thr Ser Glu Asp Glu
            100                 105                 110

Asp Asp Tyr His Gly Ser Ala Asn Ser Ser Thr Val Leu Pro Pro Arg
        115                 120                 125

Thr Glu Asn Ala Leu His Ala Ala Ser Pro Lys Pro Ser Gly Ser Thr
    130                 135                 140

Gly Tyr Thr Ser Pro Ala Leu Ser Gln Asn Ser Gly Ser Gly Gly Glu
145                 150                 155                 160

Gly Glu Ser Asp Glu Gly Ser Phe Asn Thr Gln His His Arg Ser Pro
            165                 170                 175

Ile Phe Gln Ala Tyr Pro Ser Ser Glu Asp Leu Val Gly Asp Pro Asn
        180                 185                 190

Asp Pro Tyr Arg Arg Thr Arg Arg Ala Pro Ile Lys Thr Asn Pro His
        195                 200                 205

Asp Ile Pro Ser Gln Phe Ile Phe Arg Lys Leu Gly Leu His His Gly
    210                 215                 220

Lys His Gly His His Gly His Ser Gly Ser Leu Ser Leu Lys Ser Leu
225                 230                 235                 240
```

Val Pro Asn His His Asp Lys His Asp Lys His Asp Lys His Glu Lys
              245   250   255

His His Ser Ser Leu Asp Leu Arg Arg Phe Phe Lys Ser His Gln Lys
              260   265   270

Thr Asp Lys Glu Lys Lys Pro Ser Val Ser Lys Ser Lys Ser Ser Ala
        275   280   285   .

Asn Leu Gln Asp Asp His Phe Gly Leu Phe Lys Lys Tyr Gly Lys Phe
        290   295   300

Gly Arg Met Leu Gly Ser Gly Ala Gly Gly Ser Val Arg Ile Met Lys
305   310   315   320

Arg Ser Ser Asp Gly Lys Ile Phe Ala Val Lys Glu Phe Arg Ala Arg
              325   330   335

Arg Pro Thr Glu Thr Glu Arg Glu Tyr Ala Arg Lys Val Thr Ala Glu
        340   345   350

Phe Cys Ile Gly Ser Ala Leu His His Thr Asn Ile Ile Glu Thr Leu
        355   360   365

Asp Ile Val Glu Glu Asn Lys Lys Phe Tyr Glu Val Met Glu Tyr Ala
    370   375   380

Pro Tyr Asp Met Phe Ser Ile Val Met Ser Gly Lys Met Thr Met Pro
385   390   395   400

Glu Val Tyr Cys Cys Phe Lys Gln Leu Leu Ser Gly Val Ala Tyr Leu
              405   410   415

His Ser Met Gly Leu Ala His Arg Asp Leu Lys Leu Asp Asn Leu Val
              420   425   430

Val Asp Ser Asn Cys Phe Val Lys Ile Ile Asp Phe Gly Ser Ala Val
        435   440   445

Val Phe Lys Tyr Pro Phe Glu Ala Asp Ile Val Glu Ala Thr Gly Val
    450   455   460

Val Gly Ser Asp Pro Tyr Leu Ala Pro Glu Thr Leu Val Arg Lys Leu
465   470   475   480

Tyr Asp Pro Arg Ala Val Asp Ile Trp Ser Ser Ala Ile Ile Phe Cys
              485   490   495

Cys Met Ala Leu Arg Arg Phe Pro Trp Lys Tyr Pro Lys Leu Ser Asp
        500   505   510

Asn Ser Phe Arg Leu Phe Cys Met Lys Gln Pro Ser Asn Asp Ala Glu
        515   520   525

Ser Pro Ser Asp Ile Leu Ala Asp Ile Lys Lys Gln Arg Leu Val Glu
    530   535   540

Gln Gly Cys Glu Pro Ile Arg Lys Thr Asp Glu Ser His Ser Pro Asn
545   550   555   560

Ser Lys Thr Asp Asn Ser Ser Thr His Lys Gln Glu Leu Tyr Gly Pro
                565   570   575

Trp Arg Leu Leu Arg Leu Leu Pro Arg Glu Thr Arg Ala Val Ile Ala
            580   585   590

His Met Leu Glu Leu Asp Pro Val Lys Arg Tyr Asp Ile His Arg Val
        595   600   605

Phe Ala Asp Asn Trp Ile Asn Asp Ile Ser Met Cys His Met Glu Asn
    610   615   620

Gly Lys Val Ile His Ser Pro Thr His Val His Asn Leu Val Ala Ser
625   630   635   640

Glu Glu Ser Pro Ala Pro Pro Ala Lys His
            645   650

<210> 41
<211> 812
<212> PRT
<213> Candida albicans

<400> 41
Met Thr Lys Glu His Ser Ile Arg Asn Ile Phe Lys Lys Asp Lys Thr
 1   5   10   15

Pro Asp Asn Gly Ser Ala Thr Ala Thr Pro Ser Ser Ser His Thr Gly
            20   25   30

Leu Ser Lys Leu Phe His Lys Glu Ser Lys Pro Ile Thr Pro Pro Met
        35   40   45

Lys Arg Thr Pro Ser Val Ser Ser Leu Lys Arg Arg Asn Thr Asn Pro
    50   55   60

Ser Gln Thr Ser Gly Ile Ser Leu Asn His Asn His His His Gln
65   70   75   80

Asp Ser Gln Asn His Asn Asp Ala Thr Thr Ser Gly Gly Asn Ile His
                85   90   95

Ser Ser Thr Pro Val Asn Arg Ser Arg Ser Asn Ser Asp Arg Leu Gly
            100   105   110

His Val Pro Pro Thr Gly Arg Lys Val Leu Ser Lys Ala Glu Thr Phe
        115   120   125

Thr His Leu Gln Gln Leu Asp Thr Arg Asn Ala Ala Lys Asn Gln Leu
    130   135   140

Arg Asn His Arg Ile Pro Ser Asn His Leu Ser Ser Pro Leu Ser Ala
145   150   155   160

Ala Pro His Ser Asp Lys Ile Val Tyr Asn Pro Tyr Gly Leu Asn Lys
                165   170   175

Thr Ala Thr Gln Glu Arg Pro Lys Asn Thr Ser Phe Tyr Leu Ser Gly
            180   185   190

Val Asn Asp Gly Glu Arg Val Leu Ser Asn Pro Val Ala Ser Pro Asn
        195   200   205

Asp Tyr Leu Pro Ala Glu Leu Gln Gln Gln His Val Asn Leu Leu Glu
    210   215   220

Asp Phe Glu Ile Asp Val Gly Thr Lys Lys Leu Gly Asp Gly Gly Ser
225   230   235   240

Ser Asp Val Arg Ile Ile Asn Ser Cys His His Lys Lys Asp Leu Tyr
            245   250   255

Ala Leu Lys Lys Phe Thr Leu Leu Ser Lys Glu Thr Asp Glu Asp Phe
        260   265   270

Tyr Lys Arg Val Ser Glu Glu Tyr Lys Ile His Arg Lys Ala Ala Ile
        275   280   285

Ser Arg His Val Val Asp Ala Phe Ala Ile Leu Arg Ile Gln Ser Gln
    290   295   300

Ser Asn Leu Thr Arg Gly Trp Gly Met Val Met Glu Phe Cys Gly Gly
305   310   315   320

Gly Asp Leu Phe Ser Val Ile Val Lys Pro Gly Trp Lys Ser Thr Pro
            325   330   335

Leu Ala Glu Lys Tyr Cys Leu Phe Lys Gln Ile Ala Tyr Gly Val Lys
            340   345   350

Phe Leu His Asp His Asp Ile Val His Arg Asp Leu Lys Pro Glu Asn
    355   360   365

Val Leu Leu Asp Ala Asn Gly Leu Ala Lys Leu Cys Asp Phe Gly Val
    370   375   380

Ser Glu Phe Gly His Glu Val Pro Glu Asp Phe Ser Ser Pro Val Lys
385   390   395   400

Leu Ser Thr Ala Tyr Val Gly Ser Pro Pro Tyr Ala Pro Pro Glu Val
            405   410   415

Met Leu Leu Lys Glu Lys Ser Ser Thr Glu Ile Lys Ala Phe Ala Tyr
        420   425   430

Asp Pro Phe Lys Met Asp Cys Trp Gly Leu Gly Met Leu Leu Phe Cys
    435   440   445

Leu Val Tyr Gly Gly Val Pro Phe Gln Gln Ser Ser Pro Asn Asp His
    450   455   460

Ala Phe Arg Asp Tyr Lys Phe Ser His Lys Arg Phe Cys Thr Asp His
465   470   475   480

His Thr Phe Lys Ser Asn Gln Gly Tyr Pro Arg Gly Pro Gly Ser Glu
                485   490   495

Phe Lys Leu Ala Ala Lys Phe Glu Asn Asn Gly Ala Ser Arg Val Ala
            500   505   510

Trp Lys Leu Cys Asp Pro Ser Glu Asn Thr Arg Tyr Thr Met Asp Met
        515   520   525

Leu Phe Asp Asp Pro Trp Phe Gln Ser Val Glu Met Cys Ile Tyr Glu
    530   535   540

Ser Pro Asp Gln Glu Val Asn Pro Phe Val Leu Pro Gly Thr Gly Glu
545   550   555   560

Asn Ile Asp Thr His Ser Val Ser Gly Tyr Ser Ser Val Asn Asn Ser
            565   570   575

Gln Ala Pro Ser Arg Arg Gly Thr Phe Thr Ser Arg Pro Val Gly Ser
            580   585   590

Gly Ala Gly Ser Gly Tyr Asn Ser His Asp Glu Ser Ser Asn Gly Leu
    595   600   605

Ser Ser Ser Phe Arg Ser Met Leu Asp Leu Lys Asp Ile Pro Gln Lys
    610   615   620

Ile Thr Lys Thr Asp Glu Pro Leu Pro Ser Asn Ser Ser Val His Ser
625   630   635   640

Asn Asp Ser Ser Ser Ala Arg Ala Lys Ser Lys Leu Asp His Pro Ser
            645   650   655

Ser Pro Gly Ser Leu Leu Ser Pro Ser Thr Pro Ala Leu Gln Ser Ile
            660   665   670

Pro Ala Asp Arg Val Ala Gln Thr Thr Ser Pro Ile Asn Ala Ser Leu
    675   680   685

Pro Ala Val Glu Glu Ser Asp Ile Glu His Glu Ser Glu Ser Glu Ile
    690   695   700

Gln Gly Asp Glu Thr Glu Ser Ser Gly Leu Gln Val Leu Pro Pro Ile
705   710   715   720

Asp Asp Val Val Ala Ala Ser Pro Ser Ser Leu Thr His Glu Pro Gln
            725   730   735

Glu Gln Val Leu Asp Ser Val Glu Ser Cys Ile Ser Leu Pro Pro Asn
        740   745   750

Arg Asp Gln Ala Phe Ala Gly Lys Asp Gly Glu Met Cys Ser Leu Val
        755   760   765

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Asp Leu Lys Pro Ala Ala Leu Lys Ser Ala Thr Asp Leu Gln Leu Gly
    770             775             780

Ala Asp Gly Met Cys Asn Leu Gly Tyr Lys Ile Lys Lys His His His
785             790             795                 800

Thr Glu Val Ser Asn Val Ser Asn Ser Ser Arg Arg
            805             810
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<210> 42
<211> 800
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<213> Candida albicans

<400> 42
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Met Ser Ser Leu Thr Lys Leu Leu His Glu Ser Thr Ser Thr Leu Ala
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Ser Pro Val Leu Ser Arg Asn Thr Ser Glu Val Thr Phe Lys Asp Gln
            20              25                  30

Gly Arg Arg Thr Pro Glu Ile Leu Asn Ile Ser Asp Thr Val Asp Ala
        35              40                  45

Lys Ser Pro Gly Ile Thr Ile Asp Val Ser Lys Pro Lys Pro Ser Pro
    50              55                  60

Ile Asp Thr Asp Gly Met Asn Val Glu Pro Gln Ala Val His Gly Phe
 65             70              75                  80

Asp Pro Ser Pro Asn Thr Lys Val Ser Phe Ser Ser Pro Phe Ser Pro
            85              90                  95

Thr Ser Pro Phe Thr Arg Gln Ser Ser Asn Ser Phe Ser Ser Asn Gln
            100             105             110

Ala Phe Gln Asn Thr Arg Gly Ala Val Ala Ser Pro Arg Tyr Ile Lys
        115             120             125

Asn Asn Ser Val Ser His Ser Ser Val Phe Met Gly Gly Glu Ser Leu
    130             135             140

Ser Ser Ser Ile Pro Tyr Ser Ala Pro Gly Gly Gly Arg Gly Asn Pro
145             150             155             160

Ala Ser His Ser Gly Asn Thr Gly Ser Leu Gln Arg Glu Asn Ser Phe
            165             170             175

Ser Ser Leu Asn Thr Ser Asp Ser Asn Ser Ser Ala His Ile Pro Asn
            180             185             190

Leu Pro Asn Gly Gln Pro Ile Asn Ser Ile His Ile Gln Ser Pro Gln
        195             200             205

Val Ser Ala Ser Ser Ile Asp Ser Arg Phe Val Val Ser Lys Gln Arg
    210             215             220
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```
Ile Ala Gln Ala Gln Ala Gln Ala Ser Leu Ser Ser Ser Gln Arg Ser
225             230             235             240

Asn Ser Gln Ser Gly Leu Ser Phe Phe Phe Ser Gln Lys Ser Lys Pro
            245             250             255

Ala Val Lys Arg Asp Ser Thr Thr Asp Leu Gly Ala Phe Tyr Asn Asn
            260             265             270

Ser Tyr Gln Asp Arg Asp Ala Pro Ile Val Ser Gly Ser Pro Asn Ser
            275             280             285

Leu Ser Ser Ala Glu Ser Thr Val Ser Tyr Gly Ser Ser Ala Pro Thr
            290             295             300

Arg His Asn Ser Met Ala Asn Leu Lys Arg Phe Phe Lys Lys Ser Thr
305             310             315             320

Pro Thr Thr Ser Gln Pro Val Gly Thr Ser Asn Leu Ser Ser Ser Leu
            325             330             335

Arg Ser Ala Ser Ser Gly Ala Ser Gly Ala Met Asn Ile Pro Asn Ser
            340             345             350

Leu Asn Gly Gln Thr Asn Asn Gly Tyr Gln Ser Pro Ser Ser Phe Ser
            355             360             365

Ala Ser Thr Ser Asn Thr Ser Tyr Ser Gln Ser Pro Gly Thr Asn Ser
            370             375             380

Ser Ser Val Thr Arg Ser Ser Thr Leu Gln Asn Lys Val Asn Tyr His
385             390             395             400

Glu Arg Arg Gln Ser Val Ser Gly Ile Val Asn Asn Ser Gln Gln Leu
            405             410             415

Pro Phe Ser Lys Arg Tyr His Ser Lys Asn Ala Glu Ser Leu Gly Ala
            420             425             430

Gly Ala Gly Gly Ser Val Arg Leu Leu Thr Arg Val Ser Asp Gly Leu
            435             440             445

Thr Phe Ala Val Lys Glu Phe Arg Ala Lys Tyr Gln Asn Glu Ser Lys
    450             455             460

Arg Asp Tyr Ala Lys Lys Ile Thr Gly Glu Tyr Cys Ile Gly Ser Thr
465             470             475             480

Leu Lys His Pro Asn Ile Ile Glu Thr Val Glu Ile Cys Tyr Glu Asn
            485             490             495

Glu Arg Ile His Gln Val Met Glu Tyr Cys Asp Phe Asp Leu Phe Ala
            500             505             510

Ile Val Met Ser Asn Lys Met Ser Arg Glu Glu Ile Asn Cys Cys Phe
            515             520             525
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Lys Gln Ile Leu Ala Gly Val His Tyr Leu His Ser Met Gly Leu Ala
    530   535   540

His Arg Asp Leu Lys Leu Asp Asn Cys Val Ile Asp Lys Arg Gly Ile
545   550   555   560

Val Lys Ile Ile Asp Phe Gly Ser Ala Val Val Phe Ser Tyr Pro Phe
            565   570   575

Thr Lys Thr Leu Ile Glu Ala Gln Gly Ile Val Gly Ser Asp Pro Tyr
            580   585   590

Leu Ala Pro Glu Val Cys Val Phe Asn Lys Tyr Asp Pro Arg Pro Val
        595   600   605

Asp Val Trp Ser Val Ala Ile Ile Tyr Cys Cys Met Met Leu Lys Lys
    610   615   620

Phe Pro Trp Lys Val Pro Lys Leu Ser Asp Ser Ser Phe Lys Leu Phe
625   630   635   640

Ala Ser Arg Gly Glu Phe Ile Pro Ile Ser Glu Met Leu Lys Lys Thr
            645   650   655

Pro Asn Asp Met Glu Lys Ser Asn Ser Asn Gly Ser Ser Gly Gly Gly
            660   665   670

Leu Ser Asn Leu Glu Asp Ile Ser Glu Ala Leu Glu Asp Glu Ile Thr
        675   680   685

Ala Gly Ala Lys Gln Lys Pro Ser Thr Thr Gly Gln Asn Gly Ala Thr
    690   695   700

Ala Asn Gly Lys Asp His Thr Ser Ser Glu Thr Gly Ala Asn Arg Leu
705   710   715   720

Leu Leu Ala Leu Pro Glu Asp Cys Arg Arg Leu Ile Gly Arg Met Val
            725   730   735

Glu Leu Ala Pro Ala Cys Arg Ile Thr Ile Asp Glu Val Leu Asn Asp
            740   745   750

Ser Trp Leu Lys Ser Val Asn Met Cys Thr Val Glu Glu Ser Ser Pro
        755   760   765

Gly Val Phe Glu Val Ile Lys Cys Glu Asp His Glu His Thr Gln Val
    770   775   780

Asp Gln Ser Lys Ala His Ile Ala Ala Phe Glu Lys Asn Lys Lys Lys
785   790   795   800